

CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1918

With Mayor's Inaugural Address.

Delivered January 6, 1919



SOMERVILLE, PRESS PRINT

1919

INAUGURAL ADDRESS

DELIVERED BY

Mayor Charles W. Eldridge

MONDAY, JANUARY 6, 1919

Gentlemen of the Board of Aldermen :

Deep in our hearts tonight is an overwhelming sense of gratitude. As we undertake the duties of the City Government for another year, we are, first of all, grateful for peace. The world no longer shakes with the tempest of war, and in the victory nobly won, we, of Somerville, have done our part. Our boys are numbered with the bravest. They have demonstrated anew the lofty patriotism which has been always the pride of our city, and many have suffered and died to free us and the world from the curse of autocratic power. No monument to be erected of material things can adequately express our sentiments toward them, but we shall endeavor by present honors and a lasting memorial to indicate our appreciation of their sacrifice and service.

We are grateful, too, for the philanthropic efforts of those who bravely served during the deadly epidemic which afflicted our city and which still menaces our safety, although we hope it may not again be so generally fatal. So great was the loss of life among the American people from influenza and its complications, that it exceeded the American losses in the German war. During that period of distress and sorrow, the officials of the city were assisted by men and women who volunteered to visit the sick, to ease their suffering and make comfortable their homes. The Visiting Nursing Association responded nobly to the call, giving timely aid and doubtless saving many lives. Such service is beyond price.

We are grateful for many things accomplished during the past year and we look forward with confidence to improved conditions in which all our people may share.

I feel that I express the sentiments of all our citizens in saying that we are saddened by the death today of a former President of the United States, Theodore Roosevelt. He was first of all a loyal American, able, aggressive and a true hearted patriot. By his death the nation suffers a great loss.

I want to extend my thanks to the members of the Board of Aldermen of 1918 and the heads of departments for their hearty cooperation, and I believe that the same full and free cooperation will prevail between the executive and legislative branches of 1919. I assure you that I shall cordially do my part. Working in harmony and in frequent conference, we shall be able to accomplish the best results for our city. A year ago in my inaugural address, I emphasized service, and real and valuable service has been rendered by all branches of the City Government. Each has been faithful in his place, and deserves due credit. I do not mean to infer that this service cannot be bettered. Patience, a broad mind and a kindly spirit in one who serves the public are as necessary as ability, and I urge all city employees to cultivate continually courteous words and deeds.

The war brought upon us many new activities which were carried through the past year with brilliant success. I take this opportunity publicly to commend the Committee on Public Safety, the Fuel Committee and the Committee on Food Conservation which have been continually on duty, and to the committees on the Liberty Loan and the other War Drives which have worked zealously and successfully. Somerville Branch of the Red Cross, the Special Aid Society and other organizations have accomplished splendid results in bringing aid and comfort to the soldiers and sailors and their families. Special honor is due to the women of Somerville who, with enthusiasm and earnestness, have bravely undertaken every duty and shouldered every burden by which they could assist in winning the war. The mothers, wives and sisters at home have made a record of gallant service, second only to that of

our boys in the battle line. Our two State Guard Companies have maintained highly commendable organizations and have unselfishly and effectively met every demand upon them.

Countless thousands of real Americans have done their part in this War; have given physically, mentally and financially, to the limit of their ability, not for public acclamation but with that same deep sense of patriotism that prompted those who could, to bear arms. There are many who suffered intensely the disappointment of being unable to enter the fighting ranks, but they worked faithfully over here and in that way made possible the success over there. In many ways, theirs has been the harder task, but they have done their duty as they found it, and although the work may have seemed small in comparison with that of the men abroad, yet they have done that duty faithfully and are worthy of sharing with the returning warriors the honors of victory.

With the closing of the war, a new era dawns. Our citizenship of every race and creed has been closely welded by common danger and common sacrifice. The term, "hyphenated citizen," has disappeared. We are all Americans today. That this great gain may not be lessened, we must unitedly strive to carry on the work of Americanization. Men and women, boys and girls from foreign countries who may come to our city must be heartily received and thoroughly educated. They are eager to learn; they want to be patriots, and we must not neglect to consider their interests as well as our own.

Under the direction of the Playgrounds and Recreation Commission, Somerville has a social worker who is devoting all her time to civic betterment. One distinct social center is in operation and beginnings have been made elsewhere. An important phase of this work is Americanization, and progress is being made by the commission along this and other lines of municipal activity.

Just how we shall emerge from the reconstruction period following the war we cannot say with certainty, but it appears that during the coming year, we shall still be hampered

by severe financial conditions. It is always essential that a municipality shall be economical; it is most essential now.

For the first time in many years and perhaps for the first time in the history of the city, Somerville, in 1918, rigidly adhered to the "pay-as-you-go" policy. No bonds were issued during that year. The funded debt was reduced by the payment of \$251,500.00, and no new debt was incurred. On December 31, 1917, the borrowing capacity of the city was \$242,121.85, and on December 31, 1918, it was \$546,198.63. On the first day of the new year maturities amounting to \$35,000.00 were paid, and our borrowing capacity at this moment is \$581,198.63.

This desirable situation is further improved by a reduction of interest charge and less maturities to meet during this year, and a continuation of this policy will yield rapidly increasing benefits. I shall not endeavor to explain the complicated problems of municipal finance, but it must be clear to all, that, if money is borrowed every year for a five-year period, at the end of the fifth year the city is paying in maturities an amount equal to the appropriation of a single year and, in addition, is paying interest on the five-year accumulation. This is an extravagant and wasteful policy. An act of the Legislature stipulates that money for macadam pavements and new sidewalks cannot be borrowed for a longer period than five years. For the construction of new streets and permanent pavements a term of ten years is allowed. I do not mean to recommend that improvements which will last for many years should be paid out of the tax rate. It is proper that future generations should pay a part of the cost of the privileges they will enjoy, but such work as was formerly financed by short term bonds ought surely to be paid for without recourse to the funded debt. I believe that citizens of Somerville will appreciate this policy more and more as its practical results are shown, and I unhesitatingly recommend that your board exercise the greatest caution in increasing the funded debt and eliminate altogether the short term bond.

By economy and care, we were able to close the fiscal year with a balance on hand greater than a year ago. A

statement prepared by the auditor of the financial conditions is included as a part of this address, and appears at its conclusion.

Although during the past year only such street construction was undertaken as was absolutely necessary, the city has endeavored to carry out systematic repairing and as a consequence many of our highways are notably improved. Highways when once constructed should be kept in repair, not allowed to go so long without attention that reconstruction is necessary.

It is a satisfaction to our citizens, I am sure, that military drill has been added to the course of the High School. I recommended its establishment in my address of last year, and while the drill has not progressed to the point of efficiency and value which I am confident it will reach, it has already been of great benefit to the pupils of the school, teaching prompt obedience as well as military movements, and developing physical strength.

With the opening of the Southern Building on Vinal Avenue, the fourth unit of the Junior High School system is in operation. More room is required already, but the almost prohibitive cost of building makes it seem wise to postpone construction of additions, if educational efficiency can be maintained for a time in the present quarters. The Boys' Vocational School has been enlarged by an automobile department, and I am heartily in favor of this and all forms of industrial education.

Somerville has many needs and I recognize their importance, but until money rates become normal, I hesitate to make suggestions involving large appropriations. Last year I called attention to the need of a combination police and fire station on land owned by the city at Broadway and Cedar street, and I am still of the opinion that its erection should be undertaken as soon as conditions permit.

The future contains one large undertaking which we all advocate. I refer to a suitable memorial to the men from Somerville, who served in the army and navy of the United States in the German War. We have not determined the

form in which our gratitude can best be expressed, but I believe it should combine beauty and utility. A municipal memorial building, a City Hall containing the entire roll of honor, the names of the illustrious dead, the wounded, the record of every man whether his service was on this or the other side of the ocean, would be a monument appropriate, dignified, beautiful and useful. Such a building cannot be economically constructed while present high prices prevail, but we must keep continually in mind the duty of preserving for future generations the memory of the patriotism, the glorious deeds and the willing sacrifice of the sons of Somerville in this last and greatest of wars.

In this war, the great objective on our part was not peace, but the victory of right over wrong. The problems of peace may be even more difficult than were those of war, and that there must be a tremendous readjustment in this country is evident to every one of us. Labor conditions and the cost of living have been abnormal. Industry has been entirely disrupted to meet the needs of the fighting forces. Millions of soldiers and sailors will lay down their arms prepared to take up again their old tasks, and those who have been carrying on their work must be provided with new means of employment. The whole structure of our business world is changing. We have learned the value of discipline and self-sacrifice, and we must adjust ourselves to new conditions. The men from over there are going to be of great help in solving our difficulties. They will not be the same boys who went away. We will find them greatly changed. A new spirit has been born out of the conflict. The heroism of those who have died lives in their comrades. They have faced death and worse than death, with no fear in their hearts. Their vision of the right will be clear and sure, and they will insist that the fruits of their victory for the right shall not perish.

Listen to these words from a letter of one of our boys to his mother: "God helping me, I will commit no sin that by His help I can avoid. Do not worry about me morally or physically. If I should meet death, I will die like a man for the most sacred cause our country or any other country has

ever called upon mothers to give their sons to, but I am certain that I am coming back, and coming back a man." Read the words of Marshal Foch in expressing appreciation of the distribution of Bibles among the soldiers: "Certainly the best preparation that you can give to an American soldier going into battle, is the Bible." The spirit of righteousness has grown in these men from the youngest private to the supreme commander of the grandest fighting forces in the whole history of the world, and in the hands of such men we may trust our future with a sure knowledge that right will prevail.

Though many have given their lives in this war, most of our boys will soon be back. Some there will be who will bear through life the marks of the Valley of the Shadow of Death through which they passed. Many are coming back with disabilities that will prevent them from ever again taking up the tasks they laid down, and one of the greatest works immediately before us is the fitting of these men for the new life upon which they will enter. We are informed from Washington, that there are today close to 185,000 men in the 300 hospitals overseas, and it is estimated that one in three, or approximately 60,000, will require re-education. The Federal Board for Vocational Education is to carry on this work, but will require assistance, and we must stand ready to give assistance in every way possible. They are our boys and we want them back, every one of them; whole and strong, or broken and weak, we want them. Those broken of body our love will be the stronger to help. We must give them every aid in taking up the new battle that lies ahead. It will be a hard struggle, but they are men of proved courage; they have won their fight over there, and they will take up anew the battle of life and win.

As our men return, they will bring with them a stronger self reliance, a new sense of friendship, a better appreciation of the finer qualities of heart and soul, and they will look to us to respond in kind. We shall never forget those who gave their lives for Liberty, and we shall joyfully welcome the returning ones and give all honor to them.

The executive committee appointed to make arrangements is busily engaged in preliminary work for a public welcome,

but every citizen is a member of the reception committee. Let us make that welcome an expression, as far as it may be possible, of Somerville's pride and joy in the return of her sons, so that they may feel they are, indeed, home at last with those who love them.

"What shall we give them as they come?

* * * * *

Our soldier boys, come home?

"They who died for freedom still shall live
In every heart that loved them, young and fair!
But these, the living, wounded over there—
To these what may we give?

"Not gifts—such gifts as men give to the weak—
But Work that lifts the spirit, flicks the will,
Awakes to vital thought, to hopes that thrill—
Such work as whole men seek!

"Not pity—never that!—nor coward tears,
But re-creating friendship, healing, gay,
And gratitude not only for today
But through the coming years!"

TAXES

The total amount of taxable property as of April 1, 1918, not including non-resident bank shares, was \$84,639,280. The tax was fixed at \$23.20 per \$1,000 valuation.

State Tax	\$	175,560.00
State Highway Tax.....		1,310.01
Non-Resident Bank Tax.....		2,863.34
Metropolitan Sewer Assessment.....		80,430.29
Metropolitan Park Assessment.....		43,457.01
Wellington Bridge Assessment.....		1,529.28
Wellington Bridge Assessment (Special)		1,644.50
Grade Crossings Assessment.....		12,354.20
Charles River Basin Assessment.....		7,457.52
Alewife Brook Assessment.....		1,197.94
Abatement of Smoke Assessment.....		307.55
Fire Prevention Assessment.....		975.33
County Tax		87,003.63
City Appropriations		2,232,435.60
Overlay		30,735.96
Total amount raised.....	\$	2,679,262.16
Less Estimated Revenue.....	\$	559,780.00
Appropriated from Excess and Deficiency		30,000.00
State Income Tax Receipts....	74,405.52	664,185.52
Net amount assessed in taxes.....	\$	2,015,076.64
Special Assessments:—		
Street Sprinkling	\$	36,982.10
Moths	1,096.75	38,078.85
Total amount committed.....	\$	2,053,155.49

Appropriations, classified under general headings, were made from revenue, as follows:—

General Government	\$ 99,780.00
Protection of Persons and Property.....	306,900.00
Health and Sanitation.....	216,030.00
Highways	185,160.00
Charities	81,800.00
Soldiers' Benefits	84,500.00
Education	593,271.00
Libraries	46,470.00
Recreation	21,820.00
Unclassified	41,450.00
Municipal Indebtedness	360,029.60
Water Works	195,225.00
	<hr/>
	\$2,232,435.60
Less estimated Receipts, State Income	
Tax and transfer from Excess and De-	
ficiency	664,185.52
	<hr/>
Raised by taxation for city purposes.....	\$1,568,250.08

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

Year.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduc- tion of Funded Debt.
Town	\$ 593,349 00	.....	.....	.....
Dec. 31, 1872	643,354 00	\$ 50,005 00	.....	.....
“ 1873	809,354 00	166,000 00	.....	.....
“ 1874	1,419,854 00	610,500 00	.....	.....
“ 1875	1,571,854 00	152,000 00	.....	.....
“ 1876	1,606,854 00	45,000 00	*\$55,130 62	\$2 07
“ 1877	1,606,854 00	10,000 00	*58,828 58	2 30
“ 1878	1,596,854 00	.....	61,004 64	2 31
“ 1879	1,585,000 00	.....	64,915 76	3 42
“ 1880	1,585,000 00	.....	55,739 35	2 72
“ 1881	1,585,000 00	.....	58,498 64	2 59
“ 1882	1,585,000 00	.....	61,390 59	2 65
“ 1883	1,585,000 00	.....	64,479 01	2 70
“ 1884	1,585,000 00	.....	67,719 33	2 78
“ 1885	†1,525,000 00	.....	71,305 66	2 87
“ 1886	1,525,000 00	.....	66,894 23	2 57
“ 1887	1,525,000 00	.....	70,252 88	2 56
“ 1888	†860,500 00	25,000 00	37,000 00	1 23
“ 1889	952,500 00	130,000 00	38,000 00	1 27
“ 1890	1,057,500 00	150,000 00	45,000 00	1 38
“ 1891	1,045,500 00	45,000 00	57,000 00	1 55
“ 1892	1,194,500 00	253,000 00	104,000 00	2 73
“ 1893	1,279,500 00	222,000 00	137,000 00	3 27
“ 1894	1,344,500 00	172,000 00	107,000 00	2 42
“ 1895	1,506,500 00	247,000 00	85,000 00	1 83
“ 1896	1,531,000 00	177,000 00	152,500 00	3 11
“ 1897	1,548,000 00	167,000 00	150,000 00	2 39
“ 1898	1,552,000 00	176,000 00	172,000 00	3 99
“ 1899	1,492,500 00	110,000 00	169,500 00	3 30
“ 1900	1,478,000 00	152,000 00	166,500 00	3 17
“ 1901	1,461,000 00	146,000 00	163,000 00	3 02
“ 1902	1,447,000 00	175,000 00	159,000 00	2 86
“ 1903	1,505,500 00	197,500 00	169,000 00	2 96
“ 1904	1,498,500 00	132,500 00	139,500 00	2 40
“ 1905	1,510,000 00	148,000 00	136,500 00	2 30
“ 1906	1,464,500 00	100,000 00	145,500 00	2 41
“ 1907	1,508,000 00	198,000 00	154,500 00	2 51
“ 1908	1,466,500 00	110,000 00	151,500 00	2 06
“ 1909	1,503,000 00	190,000 00	153,500 00	2 42
“ 1910	1,500,000 00	160,000 00	163,000 00	2 26
“ 1911	1,519,000 00	188,000 00	169,000 00	2 41
“ 1912	1,674,000 00	332,000 00	177,000 00	2 54
“ 1913	1,674,000 00	222,000 00	222,000 00	2 92
“ 1914	1,616,000 00	145,000 00	203,000 00	2 63
“ 1915	1,650,500 00	240,000 00	205,500 00	2 57
“ 1916	1,729,000 00	291,000 00	212,500 00	2 60
“ 1917	1,757,500 00	261,000 00	232,500 00	2 95
“ 1918	1,506,000 00	.....	251,500 00	2 97

* \$10,000 applied to payment of bonds; balance to sinking funds.

† Sinking fund applied.

Year.	Valuation.	Tax Levy.	Rate.
1872	\$22,755,325 00	\$274,374 45	\$13 00
1873	29,643,100 00	389,214 48	12 80
1874	30,837,700 00	473,235 50	15 00
1875	31,317,000 00	518,161 40	16 20
1876	26,573,400 00	504,475 24	18 60
1877	25,479,400 00	471,789 14	18 10
1878	20,976,900 00	409,497 10	19 00
1879	18,950,100 00	352,553 80	18 00
1880	20,458,100 00	402,927 71	19 10
1881	22,569,100 00	452,945 45	19 50
1882	23,162,200 00	425,721 16	17 80
1883	23,812,900 00	411,645 43	16 70
1884	24,331,100 00	418,750 26	16 60
1885	24,878,400 00	428,605 44	16 60
1886	26,003,200 00	416,987 28	15 40
1887	27,471,800 00	424,309 14	14 80
1888	28,765,400 00	421,458 60	14 00
1889	30,004,600 00	440,324 40	14 00
1890	32,557,500 00	447,704 00	14 00
1891	36,843,400 00	539,137 10	14 00
1892	38,093,100 00	596,357 50	15 00
1893	41,873,600 00	675,886 80	15 50
1894	44,142,900 00	721,165 54	15 70
1895	46,506,300 00	745,609 02	15 40
1896	49,070,800 00	786,412 32	15 40
1897	50,231,000 00	913,574 42	17 30
1898	50,739,700 00	954,187 11	17 90
1899	51,262,400 00	882,580 96	16 30
1900	52,578,200 00	889,916 08	16 00
1901	53,924,200 00	907,439 82	15 90
1902	55,558,300 00	964,535 80	16 40
1903	57,062,000 00	1,038,849 84	17 20
1904	58,137,900 00	1,059,292 56	17 20
1905	59,233,000 00	1,144,000 14	18 30
1906	60,371,500 00	1,114,023 62	17 40
1907	61,627,200 00	1,144,434 92	17 40
1908	63,158,400 00	1,237,694 72	18 40
1909	63,658,953 20	1,260,144 32	18 60
1910	66,376,338 70	1,306,888 71	18 50
1911	67,284,066 00	1,366,240 92	19 10
1912	69,632,540 00	1,390,824 93	18 80
1913	71,906,464 00	1,505,706 98	19 80
1914	74,946,894 00	1,665,289 46	21 10
1915	77,217,399 00	1,764,448 81	21 70
1916	79,304,329 00	1,785,540 99	21 40
1917	78,854,900 00	1,790,355 60	22 00
1918	84,639,280 00	2,015,783 68	23 20

REPORT OF THE CITY AUDITOR.

OFFICE OF THE CITY AUDITOR,
January 23, 1919.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville.

Gentlemen:—In accordance with the requirements of Section 3 of Ordinance Number 44, I herewith submit a report of the expenditures and receipts during the year 1918, showing in detail the appropriations and expenditures, and the receipts from each source of income, also a statement of the funded debt and temporary loans together with a balance sheet showing the assets and liabilities at the close of the financial year.

Respectfully submitted,

HOWARD E. WEMYSS,
City Auditor.

BALANCE SHEET, DECEMBER 31, 1918.

ASSETS.		LIABILITIES.	
Revenue Account.			
Cash:—		Temporary Loans	\$609,000 00
In Banks and Offices	\$214,520 02	Sale of Land, Winter Hill	500 00
Advance to Poor Department	4,101 00	Unexpended Balances:—	
		Appropriations	5,269 50
Accounts Receivable:—	\$218,621 02	Income of Trust Funds	2,300 54
Taxes, 1918	\$365,013 39	Tailings	127 11
Taxes, 1917	2,734 33	Revenue from Taxes, Supplementary Warrants	2,214 18
Taxes, 1916	1,416 92	Revenue Reserved when Collected:—	
Excise Tax	12 67	Departmental Bills Receivable	14,683 24
Special Assessments, 1918	17,056 06	Overlay, Reserved for Abatements:—	
Special Assessments, 1917	4,069 58	Levy of 1918	\$22,006 30
Special Assessments, 1916	50	Levy of 1917	2,734 33
Departmental Bills Receivable	14,683 24	Levy of 1916	1,416 92
Commonwealth of Massachusetts			
sets Soldiers' Benefits,			
1918	80,261 53	Tellers' Overs and Shorts	26,157 55
Water Department Accounts,		Reserve Fund, Surplus from Overlays	10 28
1918	27,560 51	Excess and Deficiency	5,564 52
			73,027 18
Real Estate Liens	\$512,808 73		
Grade Crossings	1,219 53		
Commonwealth of Massachusetts	427 30		
sets:			
Income Tax, Balance due	5,777 52		
	\$738,854 10		\$738,854 10

BALANCE SHEET.—Continued.

Non-Revenue Accounts.

Cash in Banks and Offices		Unexpended Balances:—	
Accounts Receivable:—		Appropriations	\$25,476 14
Extreme Emergency	203 09	Outlay Bills Receivable:—	
		Pledged to Appropriations	203 09
			<u>\$25,679 23</u>

Municipal Indebtedness.

Net Bonded Debt	\$1,506,000 00	Loans within Statutory Debt Limit:—	
		City Bonds	\$490,000 00
		Municipal Bonds	39,000 00
		Sewer Bonds	259,000 00
		Highway Bonds	327,000 00
		Bridge Bonds	31,000 00
		Public Building Bonds	302,000 00
		Emergency Loan Bonds	20,000 00
			<u>\$1,468,000 00</u>

Loans Outside Statutory Debt Limit:—

Sewer Bonds	\$21,000 00
Metropolitan Park Assessment Bonds	11,000 00
Water Bonds	6,000 00
	<u>38,000 00</u>

\$1,506,000 00\$1,506,000 00

Trust Funds.

Investments:—		Trust Funds:—	
Cash and Securities	\$26,517 42	School Funds	\$5,000 00
		Library Funds	20,414 58
		Poor Department Funds	1,102 84
			<u>\$26,517 42</u>

\$26,517 42

CASH STATEMENT, DECEMBER 31, 1918.

REVENUE.

Receipts.

General:—

Taxes	\$1,993,663 68
Corporation, Railway and Bank Taxes	166,993 02
Licenses	3,265 00
Permits	1,542 50
Fines and Forfeits	3,876 11
County, Dog Licenses	2,168 85
State, Vocational Schools	8,181 67
Grade Crossings	36,800 00
Excise Tax	233 03
Miscellaneous	2,839 29

 \$2,219,563 18

Special Assessments 61,255 11

Departmental:—

General Government	\$7,544 59
Protection of Persons and Property	2,958 48
Health and Sanitation	24,531 40
Highways	5,872 12
Soldiers' Benefits	30,461 43
Charities	29,740 74
Schools	5,475 88
Libraries	1,438 01
Baths and Bathhouses	838 70
Miscellaneous	517 18

 109,378 53

 Water Department Accounts 271,123 92
 Temporary Loans 1,484,000 00

Interest:—

Deposits, Taxes, etc.	22,619 66
Trust Funds	1,116 06

 23,735 72

 Smith-Hughes Fund 1,048 24
 Refunds 1,387 88

 Total Receipts \$4,171,492 56

 Transfer from non-revenue account
 of service transfers 4,933 50
 Balance on hand, January 1, 1918 119,347 62

 \$4,295,773 68

CASH STATEMENT, DECEMBER 31, 1918.—Continued.

Payments.

Appropriations	\$2,184,505 35
Income Trust Funds	830 97
Refunds	865 86
Temporary Loans	1,385,000 00
Tellers' Overs and Shorts	73 25
Real Estate Liens	2,413 29
Grade Crossings Advances	36,850 00
State Taxes and Assessments	329,211 31
County Tax	87,003 63
Advance to Poor Department	3,000 00

Total Payments	\$4,029,753 66
Transfer to non-revenue cash for outlays	51,500 00
Balance on hand	214,520 02
	<hr/>
	\$4,295,773 68

NON-REVENUE.

Receipts.

Carnegie Corporation	\$2,000 00
Redemption Tax Liens	2,522 59
Refunds	2,399 44

Total Receipts	\$6,922 03
Transfer from revenue cash for outlays	51,500 00
Balance on hand January 1, 1918	117,898 61
	<hr/>
	\$176,320 64

Payments.

Appropriations	\$143,388 41
Redemption of Tax Liens	2,522 59

Total Payments	\$145,911 00
Transfer to revenue on account of service transfers	4,933 50
Balance on hand	25,476 14
	<hr/>
	\$176,320 64

SUMMARY.

Total Revenue Receipts	\$4,171,492 56
Total Non-Revenue Receipts	6,922 03

Total balance at beginning of period	\$4,178,414 59
	237,246 23

Total Revenue Payments	\$4,029,753 66
Total Non-Revenue Payments	145,911 00

Total balance on hand	\$4,175,664 66
	239,996 16
	<hr/>
	\$4,415,660 82

TAXES — SPECIAL ASSESSMENTS.

	Excise Tax Ship Owners	1915	1916	1917	1918	Total
Total Uncollected January 1, 1918		\$8 68	\$2,911 32	\$359,205 97	2 00	\$362,125 97
Commitments . . . . .		.....	492 54	.....	2,015,783 68	2,016,523 92
Total to collect in 1918	\$245 70	\$8 68	\$3,403 86	\$359,207 97	\$2,015,783 68	\$2,378,649 89
Collections (less refunds) . . . . .	.....	.....	791 74	350,533 64	1,642,040 63	1,993,366 01
Abatements	233 03	8 68	1,195 20	5,940 00	8,729 66	16,106 57
Total collections and abatements Uncollected December 31, 1918	233 03 12 67	8 68	1,986 94 1,416 92	356,473 64 2,734 33	1,650,770 29 365,013 39	2,009,472 58 369,177 31
	Street Sprinkling	Moths	Sewer	Sidewalks	Highway Betterment	Total
Assessments levied 1916, Balance Jan- uary 1, 1918 . . . . .	-	.....	\$1,414 07	\$1,587 77	\$954 65	\$3,966 20
Assessments levied 1917, Balance Janu- ary 1, 1918	8,771 15	316 75	3,172 20	5,904 92	8,726 09	26,891 11
Assessments levied 1918	36,982 10	1,096 75	663 60	.....	13,004 70	51,747 15
Totals	\$45,763 05	\$1,413 50	\$5,249 87	\$7,492 69	\$22,685 44	\$82,604 55
Collections (less refunds)	\$37,265 35	\$1,171 90	\$2,666 86	\$6,587 99	\$13,383 21	\$61,075 31
Abatements	335 25	1 75	.....	.....	66 10	403 10
Collections and Abatements Uncollected	\$37,600 60 \$8,162 45	\$1,173 65 239 85	\$2,666 86 2,583 01	\$6,587 99 904 70	\$13,383 21 9,236 13	\$61,478 41 21,126 14
*Includes charges acct. Real Estate						
Liens.						
Uncollected 1916 Assessments						50
Uncollected 1917 Assessments						4,069 58
Uncollected 1918 Assessments						17,056 06
Total Uncollected Assessments						\$21,126 14

DEPARTMENTAL BILLS

Departmental Accounts, Pledged to Revenue.	Balance Jan. 1, 1918	Committed 1918	Total to Collect	Collected and Abated	Uncollected
Law Department	\$7 81	.....	\$7 81	\$7 81	.....
Police Department	17 53	1,218 18	1,235 71	1,203 38	32 33
Police Buildings . . . . .	.....	1,000 00	1,000 00	1,000 00	.....
Fire Department	9 75	44 80	54 55	54 55	.....
Health Department	66 00	387 86	453 86	72 00	381 86
Contagious Hospital	7,204 63	6,403 53	13,608 16	9,446 54	4,161 62
Inspection of Milk	38 50	642 00	680 50	664 50	16 00
Sanitary Department	115 00	3,533 80	3,648 80	3,533 80	115 00
Highway Maintenance	687 85	3,705 13	4,392 98	4,224 01	168 97
Street Sprinkling . . . . .	.....	770 61	770 61	770 61	.....
Sidewalks Maintenance	92 66	.....	92 66	92 66	.....
Sidewalks Construction . . . . .	.....	656 78	656 78	656 78	.....
Highways Buildings . . . . .	.....	240 00	240 00	240 00	.....
Poor Department, Miscellaneous	6,755 80	22,367 45	29,123 25	20,096 05	9,027 20
Poor Department, City Home	395 50	4,627 63	5,023 13	4,721 49	301 64
School Contingent	862 48	3,621 30	4,483 78	4,023 91	459 87
School Buildings	60 00	1,368 64	1,428 64	1,409 89	18 75
School Buildings, Fuel . . . . .	.....	262 68	262 68	262 68	.....
Somerville Field	200 00	.....	200 00	200 00	.....
Totals	\$16,513 51	\$50,850 39	\$67,363 90	\$52,680 66	\$14,683 24
Outlay Accounts, Pledged to Appropriations.					
Extreme Emergency . . . . .	.....	\$755 46	\$755 46	\$552 37	\$203 09

WATER DEPARTMENT ACCOUNTS (REVENUE).

			Commitments	Abatements	Collections (Net)	Balance
Metered Rates	.	.	\$221,936 26	\$2,269 16	\$192,106 59	\$27,560 51
Annual Rates	.	.	44,527 32	1,181 71	43,345 61	.....
Additional Rates	.	.	2,076 10	824 48	1,251 62	.....
Maintenance Bills	.	.	3,930 53	8 16	3,972 37	.....
Service Assessments	.	.	1,040 27	.....	1,040 27	.....
Totals	.	.	\$273,560 48	\$4,283 51	\$241,716 46	\$27,560 51
Receipts	.	.	.	.	.	.
Metered Rates Last Quarter, 1918	.	.	.	.	.	\$241,716 46
Water Revenue, 1918	.	.	.	.	.	27,560 51
						\$269,276 97
Metered Rates Last Quarter, 1917.						
Uncollected January 1, 1918	.	.	.	.	.	\$29,148 71
Abated	.	.	.	.	\$97 28	.
Collected	.	.	.	.	29,051 43	.
						\$29,148 71

STATEMENT OF ESTIMATED REVENUE.

Taxes from State:—				Receipts	Excess	Deficit
			Estimate			
Corporation Taxes . . . . .	.	.	\$52,000 00	\$50,371 72		\$2,628 28
National Bank Tax . . . . .	.	.	4,000 00	4,734 94	\$734 94	
Street Railway Tax . . . . .	.	.	20,100 00	35,278 36	15,178 36	
Licenses and Permits:—						
Milk . . . . .	.	.	250 00	288 00	38 00	
Health . . . . .	.	.	90 00	124 00	34 00	
City Clerk . . . . .	.	.	3,000 00	2,914 00		86 00
Executive . . . . .	.	.	600 00	530 00		70 00
Pedlers' License Commission . . . . .	.	.	700 00	600 00		100 00
Building Department . . . . .	.	.		133 00	133 00	
Electrical Department . . . . .	.	.		218 50	218 50	
Fines and Forfeits:—						
Court Fines . . . . .	.	.	2,500 00	3,705 11	1,205 11	
Departmental Penalties . . . . .	.	.	150 00	171 00	21 00	
Grants and Gifts:—						
County, Dog Licenses . . . . .	.	.	2,100 00	2,168 85	68 85	
State, Industrial School . . . . .	.	.	7,500 00	8,181 67	681 67	
Special Excise Tax (Ship Owners) . . . . .	.	.		245 70	245 70	
Special Assessments:—						
Moths . . . . .	.	.	1,000 00	1,095 00	95 00	
Sewers . . . . .	.	.	600 00	663 60	63 60	
Street Sprinkling . . . . .	.	.	37,000 00	36,882 15		117 85
Street Betterment . . . . .	.	.	14,000 00	13,004 70		995 30
General Government:—						
Treasury Department . . . . .	.	.	6,700 00	6,541 30		158 70
City Clerk's Department . . . . .	.	.	1,000 00	988 98		11 02
Protection of Persons and Property:—						
Police Department . . . . .	.	.	450 00	1,203 38	753 38	
Rent of Court Room . . . . .	.	.	1,000 00	1,000 00		
Fire Department . . . . .	.	.	250 00	222 73		27 27
Fire Buildings . . . . .	.	.		10 60	10 60	
Sealer of Weights . . . . .	.	.	500 00	521 77	21 77	

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Health and Sanitation:—				
Health Department	275 00	70 00	.....	205 00
Contagious Hospital	9,500 00	8,591 28	.....	908 72
Inspection of Milk	350 00	681 00	331 00	.....
Sanitary Department	12,500 00	15,184 80	2,684 80	.....
Sewer Department . . . . .	.....	4 32	4 32	.....
Highways:—				
Highway Maintenance	\$2,500 00	\$4,192 38	\$1,692 38	.....
Sidewalks Construction . . . . .	.....	631 22	631 22	.....
Highway Buildings	240 00	240 00	.....	.....
Street Sprinkling . . . . .	.....	770 61	770 61	.....
Sidewalks Maintenance . . . . .	.....	37 91	37 91	.....
Charities:—				
City Home	7,000 00	10,043 73	3,043 73	.....
Poor Department, Miscellaneous	18,500 00	19,697 01	1,197 01	.....
Soldiers' Benefits:—				
State Aid	15,000 00	12,746 00	.....	2,254 00
Military Aid	175 00	85 00	.....	90 09
Soldiers' Burials	1,000 00	150 00	.....	850 00
German War	45,000 00	67,280 53	22,280 53	.....
Education:—				
School Department	4,000 00	3,998 91	.....	1 09
Maintenance of School Buildings	1,300 00	1,476 97	176 97	.....
Library Department	1,250 00	1,438 01	188 01	.....
Recreation and Unclassified:—				
Electrolysis	500 00	500 00	.....	.....
Bathhouse	800 00	609 95	.....	190 05
Shower Baths	200 00	228 75	28 75	.....
State, in Lieu of Taxes . . . . .	.....	70 32	70 32	.....
Miscellaneous . . . . .	.....	31 83	31 83	.....
Public Service Enterprises:—				
Water Department	260,000 00	269,276 97	9,276 97	.....

STATEMENT OF APPROPRIATIONS, 1918 (REVENUE).

	Appropriation	Appropriation	Appropriation	Receipts and	Total	Expenditures	Balance to
	Trans. from	Trans. to	Service Trans.	Credit			Excess and
							Deficiency
General Government.							
Board of Aldermen Expenses	\$1,100 00	.....	.....	\$1,100 00	\$861 28	\$238 72
Clerk of Committees	2,400 00	.....	.....	2,400 00	2,363 88	36 12
Executive Department	6,550 00	.....	.....	6,550 00	6,304 48	245 52
Auditing Department	4,840 00	.....	.....	4,840 00	4,828 70	11 30
Treasury Department	17,050 00	.....	28 80	17,078 80	16,555 32	523 48
Assessors' Department	14,650 00	.....	18 75	14,058 75	13,884 43	174 32
Pedlers' License Commission	50 00	.....	.....	50 00	22 28	27 72
Certification of Notes and							
Bonds	450 00	.....	.....	450 00	192 05	257 95
City Clerk's Department	8,250 00	.....	1,210 69	9,375 69	8,901 33	474 36
Registration City Laborers	420 00	.....	.....	420 00	411 28	8 72
Law Department	2,480 00	.....	.....	2,480 00	2,437 37	42 63
City Messenger's Department	2,500 00	128 00	.....	2,628 00	2,627 66	34
Engineering Department	12,750 00	.....	.....	12,750 00	11,931 58	818 42
Commissioner of Public							
Buildings	5,850 00	140 00	2 40	5,992 40	5,988 22	4 18	
Maintenance Municipal Build-							
ings	10,425 00	.....	.....	9,920 00	9,780 62	139 38
City Planning Board	50 00	.....	.....	50 00	.....	50 00
Election Expenses, City Clerk	2,250 00	85 00	.....	2,335 00	2,333 90	1 10
Election Expenses, Registrars							
of Voters	2,600 00	.....	.....	2,600 00	2,533 23	66 77
Pay of Election Officers	4,400 00	.....	.....	4,400 00	4,392 00	8 00
Maintenance Polling Places	715 00	.....	.....	715 00	496 11	218 89

Protection of Persons and Property.

Police Department	\$136,200 00	2,230 00	.....	.....	133,970 00	133,092 65	877 35
Maintenance Police Buildings	4,200 00	.....	540 00	.....	4,740 00	4,737 15	2 85
Fire Department	131,000 00	300 00	.....	1,543 68	132,243 68	130,850 64	1,393 04
Maintenance Fire Buildings	10,000 00	.....	300 00	.....	10,300 00	9,621 11	678 89
Weights and Measures	2,900 00	.....	.....	.....	2,900 00	2,884 38	15 62
Electrical Department	13,800 00	.....	.....	374 08	14,174 08	13,816 09	357 99
Maintenance Electrical Dept Building	650 00	.....	275 00	.....	925 00	897 69	27 31
Suppression of Moths	4,200 00	.....	.....	.....	4,200 00	4,163 81	36 19
Care of Trees	3,950 00	1,200 00	40 00	129 84	2,919 84	2,889 23	30 61

Health and Sanitation.

Health Department	12,520 00	85 00	89 00	12,694 00	12,692 98	1 02
Vital Statistics	1,300 00	.....	.....	.....	1,300 00	1,061 49	238 51
Contagious Hospital	19,700 00	410 00	.....	62 15	19,352 15	17,623 89	1,728 26
Maintenance Contagious Hospital	3,800 00	.....	365 00	.....	4,165 00	4,163 79	1 21
Inspection of Animals	1,735 00	3 00	.....	.....	1,732 00	1,731 55	45
Inspection of Milk	3,400 00	.....	325 00	.....	3,725 00	3,701 80	23 20
Inspection of School Children	1,675 00	.....	.....	.....	1,675 00	1,651 46	23 54
School Nurses' Salaries	1,650 00	.....	.....	.....	1,650 00	1,650 00	.....
Sewers Maintenance	20,850 00	.....	.....	288 36	21,138 36	19,856 08	1,282 28
Maintenance Sewer Buildings	200 00	40 00	.....	.....	160 00	156 73	3 27
Sanitary Department	115,200 00	.....	2,230 00	.....	117,430 00	117,420 18	9 32
Maintenance Sanitary Buildings	800 00	.....	.....	.....	800 00	703 99	96 01
Street Cleaning	28,700 00	3,500 00	.....	.....	25,200 00	25,195 92	4 08

Highways.

Highways Maintenance	46,360 00	170 00	6,100 00	20,618 96	72,908 96	72,168 24	740 72
Sidewalks Maintenance	7,000 00	1,400 00	610 00	.....	6,210 00	6,207 51	2 49
Street Sprinkling	36,500 00	.....	130 00	.....	36,630 00	36,626 26	3 74

STATEMENT OF APPROPRIATIONS, 1918 (REVENUE).

	Appropriation	Appropriation	Receipts and	Total	Expenditures	Balance to
	Trans. from	Trans. to	Service Trans.	Credit		Excess and
						Deficiency
Street Lighting	64,000 00	.....	.....	64,000 00	64,000 00	.....
Maintenance Highway Build- ings	1,300 00	225 00	24 09	1,099 09	891 82	207 27
Charities.						
Poor Department, Miscellane- ous	64,500 00	1,000 00	88 20	63,588 20	63,420 48	167 72
Poor Department, City Home Maintenance City Home Buildings	14,500 00 2,800 00	..... 540 00	21 00	15,521 00 3,340 00	15,411 20 3,334 15	109 80 5 85
Soldiers' Benefits.						
General Administration	1,150 00	.....	.....	1,150 00	1,144 79	5 21
Military Aid	350 00	.....	.....	350 00	170 00	180 00
State Aid	15,000 00	1,780 00	46 00	13,266 00	12,792 00	474 00
State Aid, German War	70,000 00	.....	547 06	70,547 06	67,827 59	2,719 47
Soldiers' Relief	22,000 00	430 00	31 00	22,461 00	22,456 77	4 23
Soldiers' Burials	1,000 00	.....	.....	1,000 00	150 00	850 00
Education and Libraries.						
School Contingent	44,375 00	130 00	11 03	44,516 03	44,511 65	4 38
School Teachers' Salaries	416,255 00	7,310 00	55 00	409,000 00	408,740 58	259 42
Janitors' Services	39,275 00	.....	.....	39,825 00	39,817 44	7 56
Fuel and Light	47,500 00	13,840 00	262 68	61,602 68	61,600 73	1 95
Buildings and Grounds	35,250 00	800 00	518 30	30,668 30	30,639 75	28 55
Central Library	23,000 00	.....	9 20	23,009 20	23,008 92	28
Maintenance Central Library West Somerville Branch Li- brary	4,125 00 6,770 00	815 00	4 75	3,314 75 6,770 00	3,088 00 6,768 30	226 75 1 70

Education and Libraries.

Maintenance West Somerville Branch Library . . .	2,330 00	.....	.....	2,330 00	2,277 55	52 45
East Somerville Branch Library . . .	3,340 00	.....	6 40	3,346 40	3,344 80	1 60
Maintenance East Somerville Branch Library . . .	1,600 00	.....	.....	1,600 00	1,506 18	93 82
Union Square Branch Library . . .	3,735 00	.....	.....	3,735 00	3,734 91	09
Maintenance Union Square Branch Library . . .	1,570 00	275 00	.....	1,295 00	1,260 64	34 36
Recreation and Unclassified.						
Parks Maintenance . . .	10,150 00	.....	.....	10,150 00	8,344 42	1,805 58
Maintenance Park Buildings . . .	1,070 00	.....	.....	1,070 00	842 72	227 28
Playgrounds Maintenance . . .	4,375 00	.....	78 95	4,453 95	3,541 90	912 05
Playground and Recreation Commission . . .	3,500 00	.....	48 45	3,548 45	3,512 21	36 24
Maintenance Bathhouse . . .	2,725 00	760 00	.....	1,965 00	1,915 15	49 85
Victory Day Celebration . . .	.....	700 00	.....	700 00	680 50	19 50
Memorial Day . . .	425 00	.....	33 00	458 00	421 22	36 78
Municipal Documents . . .	1,450 00	.....	.....	1,450 00	1,252 19	197 81
Contingent Fund . . .	10,000 00	.....	.....	10,000 00	.....	10,000 00
Workmen's Compensation . . .	5,000 00	825 00	.....	4,175 00	2,492 91	1,682 09
Pensions . . .	19,575 00	.....	7 49	19,582 49	18,017 82	1,564 67
Damage to Persons and Personal Property . . .	5,000 00	.....	.....	5,000 00	4,336 14	663 86
Municipal Indebtedness.						
Interest . . .	114,600 00	3,874 97	1,310 94	119,785 91	114,516 41	5,269 50
Reduction of Funded Debt . . .	245,429 60	.....	1,070 40	246,500 00	246,500 00	.....
Water Works						
Water Maintenance . . .	58,400 00	.....	4,947 89	63,347 89	60,959 44	2,388 45
Water Works Extension . . .	10,000 00	3,874 97	92 33	6,217 36	5,914 12	303 24
Maintenance Water Buildings . . .	1,385 00	.....	87 19	1,472 19	1,154 63	317 56
Interest on Water Debt . . .	440 00	.....	.....	440 00	440 00	.....

STATEMENT OF APPROPRIATIONS, 1918 (REVENUE).

	Appropriation	Appropriation	Receipts and	Total	Expenditures	Balance to
	Trans, from	Trans. to	Service Trans.	Credit		Excess and
						Deficiency
Reduction of Water Debt	5,000 00	.....	.....	5,000 00	5,000 00	.....
Metropolitan Water Assessment	125,358 55	.....	.....	125,358 55	125,358 55	.....
	<u>\$2,217,678 15</u>	<u>\$33,217 97</u>	<u>\$33,668 06</u>	<u>\$2,251,346 21</u>	<u>\$2,209,508 92</u>	<u>\$41,837 29</u>
Other Accounts.						
Income of Trust Funds:—						
School:—						
S. Newton Cutler	\$214 50	\$615 38	\$104 09	\$511 29
Smith-Hughes	1,048 24	1,048 24	260 00	788 24
Library:—						
S. Newton Cutler	42 88	76 11	50 00	26 11
Martha R. Hunt, Art	95 00	314 29	.....	314 29
Martha R. Hunt, Book	495 29	536 57	257 23	279 34
Hunt Fund for Expenses	202 77	.....	202 77
Isaac Pitman, Art	171 32	226 80	139 40	87 40
Isaac Pitman, Poetry	42 82	50 05	20 25	29 84
Frances A. Wilder	4 25	11 26	.....	11 26
Poor:—						
Olive C. Cummings	50 00	50 00	.....	50 00
Tellers' Overs and Shorts	79 56	83 53	73 25	10 28
Temporary Loans	1,385,000 00	1,385,000 00	.....
Grade Crossings	36,850 00	36,850 00	.....
Real Estate Liens	2,413 29	2,413 29	.....
State Taxes and Assessments	329,211 31	329,211 31	.....
County Tax	87,003 63	87,003 63	.....
Advance to Poor Department	3,000 00	3,000 00	.....

Other Accounts.**Income of Trust Funds:—****School:—**

S. Newton Cutler

Smith-Hughes

Library:—

S. Newton Cutler

Martha R. Hunt, Art

Martha R. Hunt, Book

Hunt Fund for Expenses

Isaac Pitman, Art

Isaac Pitman, Poetry

Frances A. Wilder

Poor:—

Olive C. Cummings

Tellers' Overs and Shorts

Temporary Loans

Grade Crossings

Real Estate Liens

State Taxes and Assessments

County Tax

Advance to Poor Department

STATEMENT OF APPROPRIATIONS, 1918 (NON-REVENUE).

	Balance from 1917	Appro- priation	Appropriation Transfer from	Appropriation Transfers to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1919
Bennett School Addition	166 71	.....	.....	.....	.....	166 71	.....	166 71
S. Newton Cut- ler School Ad- dition	445 34	.....	.....	.....	.....	445 34	.....	445 34
New School Building, East Somerville	1,046 70	.....	.....	.....	.....	1,046 70	.....	1,046 70
Schoolhouses Sprinkler Sys- tems	3,539 88	.....	.....	.....	.....	3,539 88	.....	3,539 88
New School Building, Hol- land Street	2,765 72	.....	.....	.....	.....	2,765 72	2,565 72	200 00
Southern Junior High School	82,420 76	.....	.....	.....	34 20	82,445 06	82,209 26	245 80
Building Connections, Forster School house	2,000 00	.....	14 75	.....	.....	1,985 25	1,985 25	.....
Boys' Industrial School Addi- tion No. 1.	896 84	.....	.....	.....	.....	896 84	324 08	572 76
Boys' Industrial School Addi- tion No. 2. . . . .	.....	17,000 00	.....	.....	4 38	17,004 38	13,289 04	3,715 34
Libraries. East Somerville Branch Li- brary	2,714 91	2,000 00	4,714 91	4,714 91

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COMMONWEALTH OF MASSACHUSETTS.

Payments.

State Tax	\$175,560 00
State Highway Tax	1,310 01
Non-Resident Bank Tax	2,863 34
Metropolitan Sewer Assessment	80,430 29
Metrololitan Park Assessment	43,457 01
Wellington Bridge Assessment	1,529 28
Wellington Bridge Special Assessment	1,644 50
Grade Crossings Assessment	12,354 20
Charles River Basin Assessment	7,457 52
Alewife Brook Assessment	1,197 94
Abatement of Smoke Assessment	307 55
Fire Prevention Assessment	975 33
Soldiers' Exemption	124 34
Metropolitan Water Assessment	125,358 55

Total	\$454,569 86
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Receipts

State Aid	\$13,218 14
Military Aid	165 00
Soldiers' Burials	500 00
State Aid, German War	16,578 29
Income Tax, 1918	68,628 00
Income Tax, 1917	6,384 00
Mothers' Aid	9,460 60
Aid to Poor	3,082 61
Tuition of State Wards	609 75
Smith Hughes Fund	1,048 24
In Lieu of Taxes	70 32

Total	\$119,744 95
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COUNTY OF MIDDLESEX.

County Tax	\$87,003 63
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STATEMENT OF REVENUE AND EXPENSES.

Revenue.

Total amount as per assessors' commitments	\$2,015,076 64
Less State Taxes	\$179,733 35
- County Tax	87,003 63
Overlay	30,735 96
	297,472 94

Amount raised for municipal purposes	\$1,717,603 70
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Other Revenue:—

Commonwealth of Massachusetts, Income Tax 1918	\$74,405 52
Commonwealth of Massachusetts, Income Tax 1917, Additional	7,980 00
Estimated Revenue Receipts	559,780 00
Excess of Estimated Revenue	52,665 60
Transfer from Excess and Deficiency	30,000 00
	724,831 12

Total	\$2,442,434 82
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Expenses.

Revenue Appropriations	\$2,212,319 60
Outlay Appropriations	51,500 00
Metropolitan and Other Assessments	149,477 96
	\$2,413,297 56

Excess of Revenue	\$29,137 26
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TEMPORARY LOANS, 1918.

Taken By	Nos.	Issued	Due	Rate	Amount	Paid
R. L. Day & Co.	584 @ 600	Jan. 16, 1918	Nov. 5, 1918	5 19%	\$200,000 00	Nov. 5, 1918
F. S. Moseley & Co.	601 @ 604	Feb. 19, 1918	Nov. 5, 1918	5 20	50,000 00	Nov. 5, 1918
Old Colony Trust Co.	605	Mar. 7, 1918	Dec. 20, 1918	5 20	20,000 00	Dec. 20, 1918
Old Colony Trust Co.	606 @ 611	Mar. 20, 1918	Oct. 15, 1918	5 18	100,000 00	Oct. 15, 1918
Old Colony Trust Co.	612 @ 617	Mar. 25, 1918	Oct. 18, 1918	5 28	100,000 00	Oct. 18, 1918
Old Colony Trust Co.	618 @ 623	Mar. 25, 1918	Nov. 20, 1918	5 35	100,000 00	Nov. 20, 1918
J. B. Tilton .	624	Apr. 1, 1918	Apr. 1, 1919	5 25	25,000 00	
Estabrook & Co.	625	Mar. 29, 1918	Nov. 6, 1918	5 35	5,000 00	Nov. 6, 1918
Estabrook & Co.	626 @ 630	Mar. 29, 1918	Nov. 20, 1918	5 35	50,000 00	Nov. 20, 1918
Highland Trust Co.	631 @ 633	Apr. 29, 1918	Apr. 29, 1919	5 25	25,000 00	
Old Colony Trust Co.	634 @ 635	May 9, 1918	Nov. 20, 1918	5 27	50,000 00	Nov. 20, 1918
Old Colony Trust Co.	636 @ 637	May 9, 1918	Dec. 12, 1918	5 27	50,000 00	Dec. 12, 1918
*Old Colony Trust Co.	C-1 @ C-50	May 10, 1918	May 10, 1919	5 25	50,000 00	
*Blodgett & Co.	C-51 @ C-70	May 10, 1918	May 10, 1919	5 25	100,000 00	
*Zelwyn C. Bowman	C-71	June 5, 1918	June 5, 1919	4 50	2,000 00	
*Zelwyn C. Bowman	C-72	June 10, 1918	June 10, 1919	4 50	5,000 00	
Salomon Bros. & Hutzler	638 @ 643	June 14, 1918	Apr. 3, 1919	4 62	150,000 00	
F. S. Moseley & Co.	644 @ 649	July 8, 1918	Nov. 20, 1918	4 37	50,000 00	Nov. 20, 1918
Estabrook & Co.	650 @ 651	Aug. 27, 1918	Aug. 27, 1919	4 30	100,000 00	
Old Colony Trust Co.	652 @ 659	July 12, 1918	June 25, 1919	4 39	125,000 00	
*F. S. Moseley & Co.	661 @ 665	Sept. 13, 1918	Sept. 13, 1919	4 35	27,000 00	
Old Colony Trust Co.	666 @ 667	Sept. 27, 1918	Dec. 23, 1918	4 59	100,000 00	Dec. 23, 1918
Total amount of 1918 loans					\$1,484,000 00	
Outstanding January 1, 1918.					510,000 00	
Payments, 1918 .					\$1,994,000 00	
Outstanding December 31, 1918					1,385,000 00	
					\$609,000 00	

* Coupon notes.

† Interest payable semi-annually.

FUNDED DEPT.

The total funded debt of the city January 1, 1918, was \$1,757,500. No new loans were authorized. The debt was reduced by maturities amounting to \$251,500, leaving a total debt on December 31, 1918, of \$1,506,000.

Classified Debt January 1, 1918.

City Loan	\$595,500 00	
Municipal Loan	47,000 00	
Sewer Loan	279,000 00	
Public Building Loan	326,000 00	
Highway Loan	406,000 00	
Bridge Loan	32,000 00	
Emergency Loan	25,000 00	
		<hr/>
Total inside limit		\$1,710,500 00
Sewer Loan	\$24,000 00	
Metropolitan Park Assessment Loan	12,000 00	
Water Loan	11,000 00	
		<hr/>
Total outside limit		47,000 00
		<hr/>
Total funded debt		\$1,757,500 00

Debt reductions by maturities were as follows:—

City Loan	\$105,500 00	
Municipal Loan	8,000 00	
Sewer Loan	20,000 00	
Public Building Loan	24,000 00	
Highway Loan	79,000 00	
Bridge Loan	1,000 00	
Emergency Loan	5,000 00	
		<hr/>
Total inside limit		\$242,500 00
Sewer Loan	\$3,000 00	
Metropolitan Park Assessment Loan	1,000 00	
Water Loan	5,000 00	
		<hr/>
Total outside limit		9,000 00
		<hr/>
Total reduction		\$251,500 00

Classified Debt December 31, 1918.

City Bonds, 3½ per cent.	\$73,000 00	
City Bonds, 4 per cent.	367,000 00	
City Bonds, 4¼ per cent.	50,000 00	
Municipal Bonds, 4½ per cent.	39,000 00	
Sewer Bonds, 3½ per cent.	74,000 00	
Sewer Bonds, 4 per cent.	160,000 00	
Sewer Bonds, 4¼ per cent.	25,000 00	
Public Building Bonds, 4 per cent	217,000 00	
Public Building Bonds, 4½ per cent.	85,000 00	
Highway Bonds, 4½ per cent.	8,000 00	
Highway Bonds, 4 per cent.	231,000 00	
Highway Bonds, 3½ per cent.	88,000 00	
Bridge Bonds, 3½ per cent.. . . .	31,000 00	
Emergency Bonds, 4½ per cent.	20,000 00	
		<hr/>
Total within limit		\$1,468,000 00

Sewer Bonds, 4 per cent.	\$21,000 00	
Metropolitan Park Bonds, 3½ per cent.	11,000 00	
Water Bonds, 4 per cent	6,000 00	
	<hr/>	
Total outside limit		38,000 00
		<hr/>
Total Funded Debt		\$1,506,000 00

FUNDED DEBT, DECEMBER 31, 1918.

Mature	City Loan	Municipal Loan	Sewer Loan	Public Building Loan	Highway Loan	Lowell Street Bridge Loan	Sewer Loan Chap. 357, 1895	Metropolitan Park Assess- ment Loan Chap. 325, 1902	Water Loan	Emergency Loan	Total Matur- ities By Years
1919.....	\$92,500	\$8,000	\$20,000	\$24,000	\$78,000	\$1,000	\$3,000	\$1,000	\$4,000	\$5,000	\$236,500
1920.....	79,500	8,000	20,000	24,000	64,000	1,000	3,000	1,000	2,000	5,000	207,500
1921.....	68,500	8,000	20,000	24,000	55,000	1,000	3,000	1,000	.....	5,000	185,500
1922.....	52,500	8,000	20,000	19,000	46,000	1,000	3,000	1,000	.....	5,000	155,500
1923.....	41,500	7,000	18,000	18,000	27,000	1,000	3,000	1,000	.....	.....	116,500
1924.....	25,500	.....	17,000	18,000	27,000	1,000	3,000	1,000	.....	.....	92,500
1925.....	23,000	.....	17,000	18,000	16,000	1,000	3,000	1,000	.....	.....	79,000
1926.....	19,000	.....	15,000	18,000	11,000	1,000	.....	1,000	.....	.....	65,000
1927.....	19,000	.....	14,000	17,000	3,000	1,000	.....	1,000	.....	.....	55,000
1928.....	17,000	.....	12,000	16,000	.....	1,000	.....	1,000	.....	.....	47,000
1929.....	16,000	.....	11,000	16,000	.....	1,000	.....	1,000	.....	.....	45,000
1930.....	15,000	.....	10,000	16,000	.....	1,000	.....	.....	.....	.....	42,000
1931.....	12,000	.....	10,000	15,000	.....	1,000	.....	.....	.....	.....	38,000
1932.....	9,000	.....	8,000	15,000	.....	1,000	.....	.....	.....	.....	33,000
1933.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	.....	.....	23,000
1934.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	.....	.....	23,000
1935.....	.....	.....	7,000	8,000	.....	1,000	.....	.....	.....	.....	16,000
1936.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	.....	.....	11,000
1937.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	.....	.....	11,000
1938.....	.....	.....	4,000	.....	.....	1,000	.....	.....	.....	.....	5,000
1939.....	.....	.....	3,000	.....	.....	1,000	.....	.....	.....	.....	4,000
1940.....	.....	.....	2,000	.....	.....	1,000	.....	.....	.....	.....	3,000
1941.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1942.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1943.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1944.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1945.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1946.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1947.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1948.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1949.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
	\$490,000	\$29,000	\$259,000	\$302,000	\$327,000	\$31,000	\$21,000	\$11,000	\$6,000	\$20,000	\$1,506,000

MATURITIES ON FUNDED DEBT, 1919.

Class of Loan	Jan. 1, 1919	April 1, 1919	July 1, 1919	Oct. 1, 1919	Total
City . . . . .	.	.	.	.	.
Municipal	\$9,000 00	\$52,000 00	\$29,500 00	\$2,000 00	\$92,500 00
Sewer . . . . .	.	.	8,000 00	.....	8,000 00
Public Buildings	3,000 00	10,000 00	10,000 00	.....	23,000 00
Highway	6,000 00	5,000 00	13,000 00	.....	24,000 00
Bridge	17,000 00	56,000 00	5,000 00	.....	78,000 00
Metropolitan Park . . . . .	.....	1,000 00	.....	.....	1,000 00
Water . . . . .	.....	.....	1,000 00	.....	1,000 00
Extreme Emergency . . . . .	.....	.....	.....	4,000 00	4,000 00
Total	\$35,000 00	\$124,000 00	\$71,500 00	\$6,000 00	\$236,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT, 1919.

Class of Loan	Jan. 1, 1919	April 1, 1919	July 1, 1919	Oct. 1, 1919	Total
City . . . . .	.	.	.	.	.
Municipal	\$4,582 50	\$5,097 50	\$4,402 50	\$4,080 00	\$18,162 50
Sewer	877 50	.....	877 50	.....	1,755 00
Public Buildings	1,990 00	3,456 25	1,935 00	3,260 00	10,641 25
Highway	4,692 50	1,560 00	4,572 50	1,460 00	12,285 00
Bridge	2,100 00	4,240 00	1,802 50	3,120 00	11,262 50
Metropolitan Park . . . . .	.....	542 50	.....	525 00	1,067 50
Water	192 50	.....	192 50	.....	385 00
Extreme Emergency . . . . .	.....	120 00	.....	120 00	240 00
Total	\$14,860 00	\$15,016 25	\$14,207 50	\$12,565 00	\$56,648 75

MATURITIES ON FUNDED DEBT (5 YEARS).

Class of Loan	1915	1916	1917	1918	1919	Total
City	\$150,500 00	\$131,500 00	\$118,500 00	\$105,500 00	\$92,500 00	\$598,500 00
Municipal	10,000 00	10,000 00	10,000 00	8,000 00	8,000 00	46,000 00
Sewer	20,000 00	20,000 00	22,000 00	23,000 00	23,000 00	108,000 00
Public Buildings . . . . .	.....	8,000 00	19,000 00	24,000 00	24,000 00	75,000 00
Highway	18,000 00	36,000 00	56,000 00	79,000 00	78,000 00	267,000 00
Bridge	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	5,000 00
Metropolitan Park	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	5,000 00
Water	5,000 00	5,000 00	5,000 00	5,000 00	4,000 00	24,000 00
Extreme Emergency . . . . .	.....	.....	.....	5,000 00	5,000 00	10,000 00
Total	\$205,500 00	\$212,500 00	\$232,500 00	\$251,500 00	\$236,500 00	\$1,138,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT (5 YEARS).

Class of Loan	1915	1916	1917	1918	1919	Total
City	\$37,558 75	\$31,768 75	\$26,606 25	\$22,143 75	\$18,162 50	\$136,240 00
Municipal	3,465 00	3,015 00	2,565 00	2,115 00	1,755 00	12,915 00
Sewer	13,176 25	12,708 75	12,306 25	11,533 75	10,641 25	60,366 25
Public Buildings	2,040 00	7,240 00	9,980 00	13,270 00	12,285 00	44,815 00
Highway	6,640 00	9,747 50	13,822 50	14,325 00	11,262 50	55,797 50
Bridge	1,207 50	1,172 50	1,137 50	1,102 50	1,067 50	5,687 50
Metropolitan Park	525 00	490 00	455 00	420 00	385 00	2,275 00
Water	1,040 00	840 00	640 00	440 00	240 00	3,200 00
Extreme Emergency . . . . .	.....	.....	.....	1,062 50	850 00	1,912 50
Total	\$65,652 50	\$66,982 50	\$67,512 50	\$66,412 50	\$56,648 75	\$323,208 75

BORROWING CAPACITY DECEMBER 31, 1918.

Valuation, 1916	.	.	.	.	\$79,304,329 00	
Supplementary	.	.	.	.	141,400 00	
						\$79,445,729 00
Valuation, 1917	.	.	.	.	\$78,921,472 00	
Supplementary	.	.	.	.	13,900 00	
						78,935,372 00
Valuation, 1918	.	.	.	.	\$84,639,280 00	
Supplementary	.	.	.	.	24,700 00	
						84,663,980 00
						\$243,045,081 00
Abatements, 1916	.	.	.	.	\$594,220 55	
Abatements, 1917	.	.	.	.	453,850 00	
Abatements, 1918	.	.	.	.	293,175 00	
						1,341,245 55
						\$241,703,835 45
Average valuation for three years	.	.	.	.	\$80,567,945 15	
Two and one-half per cent.	.	.	.	.	2,014,198 62	
Present debt within limit	.	.	.	.	1,468,000 00	
Borrowing capacity December 31, 1918	.	.	.	.		\$546,198 62
Maturities:—						
January 1, 1919	.	.	.	.	\$35,000 00	
April 1, 1919	.	.	.	.	124,000 00	
July 1, 1919	.	.		\$71,500 00		
Less outside limit	.			4,000 00		
					67,500 00	
October 1, 1919	.	.		\$6,000 00		
Less outside limit	.			4,000 00		
					2,000 00	
Maturities in 1919 within limit	.					228,500 00
						\$774,698 62
Total maturities on funded debt, 1919	.	.	.	.		\$236,500 00

ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEARS.**Charges:—**

Highway Betterments, 1917	\$66 10	
Street Sprinkling, 1917	229 40	
Street Sprinkling, 1916	5 80	
	<hr/>	\$301 30

Credit:—

Excess and Deficiency		\$301 30
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REFUNDS TAXES, CHAPTER 49, ACTS 1918.**Charges:—**

Taxes 1917 Refunded		\$7 22
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Credit:—

Excess and Deficiency		\$7.22
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WATER CHARGES 1917 REFUNDED OR ABATED.**Charges:—**

Annuals	\$23 23	
Metered	97 28	
	<hr/>	\$120 51

Credit:—

Excess and Deficiency		\$120 51
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TELLERS' OVERS AND SHORTS.**Credits:—**

Balance from 1917 account	\$3 97	
Cash	10 28	
Excess and Deficiency	69 28	
	<hr/>	\$83 53

Charges:—

Shortages		73 25
		<hr/>
Balance to 1919 account		\$10 28

REAL ESTATE LIENS.**Charges:—**

Balance from 1917 account	\$104 27	
Titles purchased	2,413 29	
	<hr/>	\$2,517 56

Credits:—

Taxes and Street Sprinkling, 1916 . .	\$109 75	
Cash	1,169 97	
Excess and Deficiency	18 31	
	<hr/>	1,298 03

Balance to 1919 account		\$1,219 53
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GRADE CROSSINGS ADVANCES.**Charges:—**

Balance from 1917 account	\$377 30	
Land Damage	36,800 00	
Auditing Services	50 00	
	<hr/>	\$37,257 30

Credits:—

Cash, Commonwealth of Massachusetts	\$8,505 00	
Boston Elevated Railway Co. . . .	4,375 00	
Boston & Maine Railroad	23,920 00	
	<hr/>	36,800 00

Balance to 1919 account		\$427 30
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SALE OF LAND, WINTER HILL.

Balance from 1917 account	\$500 00
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PREMIUMS ON BONDS.

Credit:—	
Balance from 1917 account	\$1,070 40
Charge:—	
Transfer to appropriation for Reduction of Funded Debt	\$1,070 40

ACCRUED INTEREST ON BONDS.

Credit:—	
Balance from 1917 account	\$1,310 94
Charge:—	
Transfer to appropriation for Interest	\$1,310 94

REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credit:—		
Balance from 1917 account	\$1,513 14	
Supplementary Warrants Nos. 1 and 2, 1918	707 04	
	<hr/>	\$2,220 18
Charges:—		
Abatements		6 00
		<hr/>
Balance to 1919 account		\$2,214 18

REDEMPTION TAX TITLES.

Credit:—	
Cash received	\$2,522 59
Charges:—	
Titles redeemed, cash paid	\$2,522 59

OVERLAY ACCOUNT.

Overlay, 1915.

Credit:—		
Balance from 1917 account . . .		\$3,118 57
Charges:—		
Abatements	\$8 68	
Transferred to Reserve Fund . . .	3,109 89	
	<hr/>	\$3,118 57

Overlay, 1916.

Credits:—		
Balance from 1917 account . . .	\$2,437 19	
Recommitments	385 54	
	<hr/>	\$2,822 73
Charges:—		
Abatements	\$1,191 20	
Transferred to Reserve Fund . . .	214 61	
	<hr/>	1,405 81
Balance to 1919 account . . .		<hr/> \$1,416 92

Overlay, 1917.

Credits:—		
Balance from 1917 account . . .	\$13,046 45	
Recommitment	2 00	
	<hr/>	\$13,048 45
Charges:—		
Abatements	\$5,940 00	
Transferred to Reserve Fund . . .	4,374 12	
	<hr/>	10,314 12
Balance to 1919 account . . .		<hr/> \$2,734 33

Overlay, 1918.

Credit:—		
Taxes, 1918		\$30,735 96
Charges:—		
Abatements		8,729 66
		<hr/>
Balance to 1919 account . . .		\$22,006 30

RESERVE FUND, SURPLUS FROM OVERLAYS.

Credits:—		
Balance from 1917 account . . .	\$3,224 45	
Transfer from, Overlay, 1915 . . .	3,109 89	
Overlay, 1916	214 61	
Overlay, 1917	4,374 12	
	<hr/>	\$10,923 07
Charges:—		
Transfer account of Metropolitan Water Assessment		5,358 55
		<hr/>
Balance to 1919 account . . .		\$5,564 52

EXCESS AND DEFICIENCY.

Credits:—

Balance from 1917 account	\$37,419 75
Additional, 1917 State Aid	419 00
Excess of Appropriations	36,567 79
Excess of Revenue	29,137 26

\$103,543 80

Charges:—

Transfer to reduce tax levy	\$30,000 00
Tellers' Overs and Shorts	69 28
Real Estate Liens	18 31
Abatements Special Assessments Prior	
Years	301 30
Refunds, Taxes, Chap. 49	7 22
Water Charges 1917 Abated	120 51

30,516 62

Balance to 1919 account

\$73,027 18

CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

Receipts.

General Revenue.

Taxes:—

Taxes, 1918	\$1,642,301 91
Taxes, 1917	350,947 16
Taxes, 1916	414 62
From State:—	
Corporation	50,371 72
National Bank	4,734 94
Street Railway	35,278 36
Income Tax, 1918	68,628 00
Income Tax, 1917	7,980 00
Excise Tax, Ship Owners	233 03

Licenses and Permits.

Licenses:—

Amusement	530 00
Junk	865 00
Milk	288 00
Pool and billiards	276 00
Sunday	375 00
Innholders and Victuallers	70 00
Pedlers	600 00
All other	261 00

Permits:—

Marriage	949 00
Signs	10 00
Garages	178 00
All other	405 50

Carried forward \$2,165,697 24

Brought forward \$2,165,697 24

Fines and Forfeits

Court Fines 3,705 11
 Departmental Penalties 171 00

Grants and Gifts.

From State, Vocational Schools 8,181 67
 From County, Dog Licenses 2,168 85
 From Carnegie Corporation 2,000 00

All Other General Revenue.

Grade Crossings 36,800 00
 Real Estate Liens 1,169 97
 State, in Lieu of Taxes 70 32
 Cash advance, reimbursement, Poor
 Department 1,599 00

Total General Revenue \$2,221,563 16

Commercial Revenue—Special Assessments.

For Expenses:—

Street Sprinkling, 1918 \$28,785 50
 Street Sprinkling, 1917 8,655 40
 Street Sprinkling, 1916 3 50
 Moths, 1918 861 50
 Moths, 1917 334 83

For Outlays:—

Sewers, 1918 \$663 60
 Sewers, 1917 and 1916 2,003 26
 Sidewalks, 1917 and 1916 6,526 39
 Street Betterments, 1918 4,328 24
 Street Betterments, 1917 and 1916 9,092 89

Total Commercial Revenue—Special
 Assessments

\$61,255 11

Carried forward \$2,282,818 27

Commercial Revenue — Departmental.

Brought forward		\$2,282,818 27
General Government.		
Treasurer and collector	\$6,541 30	
City Clerk	988 98	
Other	14 31	
Protection of Persons and Property.		
Police Department:—		
Service of officers	844 71	
Cloth	358 67	
Rent of Court Room	1,000 00	
Fire Department	233 33	
Sealer of Weights and Measures	521 77	
Health and Sanitation.		
Contagious Hospital	8,591 28	
Health Department	70 00	
Inspection	681 00	
Sewer Department	4 32	
Sanitary Department:—		
Garbage	13,804 80	
Incinerator	1,380 00	
Highways.		
Labor and Materials	4,192 38	
Sidewalks Maintenance	37 91	
New Sidewalks	631 22	
Street Sprinkling	770 61	
Rent of Tenements	240 00	
Charities.		
Almshouse:—		
Sale of produce, etc.	5,446 97	
Board	4,596 76	
Outside Relief:—		
Individuals	100 00	
Cities and towns	7,053 80	
State	3,082 61	
Mothers' Aid:—		
State	9,460 60	
Soldiers' Benefits.		
State Aid	13,218 14	
Military Aid	165 00	
Soldiers' Burials	500 00	
State Aid, German War	16,578 29	
Education.		
Tuition State Wards	609 75	
Other Tuition	3,389 16	
Rent High School Hall	1,148 34	
Miscellaneous, School Buildings	328 63	
Libraries.		
Fines, etc.	1,438 01	
Recreation.		
Playgrounds	6 90	
Bathhouse	609 95	
Shower Baths	228 75	
Carried forward	\$108,868 25	\$2,282,818 27

Brought forward	\$108,868 25	\$2,282,818 27
Unclassified.		
Electrolysis	500 00	
Tellers' Overs	10 28	

Total Commercial Revenue — Departmental	\$109,378 53
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Commercial Revenue — Public Service Enterprises.**Water Department:—****Sale of Water:—**

Metered, 1918	\$192,251 21
Metered, 1917	29,055 03
Annual	43,543 76
Additional	1,253 12
Service Assessments	1,040 27
Maintenance Bills	3,980 53

Total Commercial Revenue — Public Service Enterprises	\$271,123 92
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Commercial Revenue — Interest.

Deposits	\$9,971 73
Taxes	12,085 98
Special Assessments	542 52
Trust Funds:—	
School	214 50
Library	851 56
Poor Department	50 00
Miscellaneous	19 43

Total Commercial Revenue — Interest	\$23,735 72
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Municipal Indebtedness.**Temporary Loans:—**

Anticipation of Revenue	\$1,484,000 00
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Total Municipal Indebtedness	\$1,484,000 00
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Agency, Trust and Investment.**Agency:—**

Redemption of Tax Liens	\$2,522 59
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Trust:—

Smith Hughes Trust, Schools	1,048 24
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Total Agency, Trust and Investment	\$3,570 83
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Refunds.

Soldiers' Benefits	\$662 29
General Appropriations	725 59
Outlay Appropriations	2,399 44

Total Refunds	\$3,787 32
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Total Receipts	\$4,178,414 59
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**EXPENDITURES.
GENERAL GOVERNMENT.**

		Expenses	Outlays
Board of Aldermen Expenses.			
Books, postage and supplies	\$108 45		
Printing and advertising .	80 75		
Refreshments	563 35		
Badges	84 00		
Miscellaneous	24 73		
		\$861 28	
Clerk of Committees Department.			
Salaries and Wages:—			
Clerk	\$1,700 00		
Assistant	500 00		
Other Expenses:—			
Books, postage and sup- plies	60 09		
Printing and advertising	3 50		
Telephone	84 29		
Binding	16 00		
		2,363 88	
Executive Department.			
Salaries and Wages:—			
Mayor	\$3,495 99		
Secretaries	1,869 58		
Other Expenses:—			
Books, postage and sup- plies	279 33		
Printing and advertising	53 75		
Telephone	105 33		
Auto hire	10 00		
Inaugural expenses .	261 55		
Contingent expenses .	218 95		
Miscellaneous	10 00		
		6,304 48	
Auditing Department.			
Salaries and Wages:—			
Auditor	\$2,500 00		
Clerks	1,802 35		
Other Expenses:—			
Books, postage and sup- plies	102 93		
Printing and advertising	362 20		
Telephone	43 22		
Miscellaneous	18 00		
		4,828 70	
Treasury Department.			
Salaries and Wages:—			
Treasurer and Collector	\$3,200 00		
Deputy Collector . . .	1,600 00		
Cashiers	2,034 01		
Clerks	5,300 01		
Other Expenses:—			
Books, postage and sup- plies	\$2,422 11		
Carried forward . . .	\$14,556 13	\$14,358 34	

Brought forward . . .	\$14,556 13	\$14,358 34
Printing and advertising . . .	1,140 16	
Carfares, teams, etc. . .	4 00	
Telephone . . .	155 53	
Bonds . . .	505 00	
Convention expenses . . .	61 78	
Miscellaneous . . .	103 92	
	<hr/>	\$16,526 52
Assessors' Department.		
Salaries and Wages:—		
Chairman . . .	\$2,200 00	
Assessors (4) . . .	3,600 00	
Assistant Assessors . . .	1,500 00	
Clerks (Office) . . .	4,671 26	
Clerks (Street) . . .	202 00	
Other Expenses:—		
Books, postage and supplies . . .	614 18	
Printing and advertising . . .	958 52	
Carfares, teams, etc. . .	18 24	
Telephone . . .	39 36	
Miscellaneous . . .	62 12	
	<hr/>	13,865 68
Pedlers' License Commission.		
Books, postage and supplies . . .		
	\$22 28	
	<hr/>	22 28
Certification of Notes and Bonds.		
Certifying . . .	\$157 69	
Printing . . .	34 36	
	<hr/>	192 05
City Clerk's Department.		
Salaries and Wages:—		
City Clerk . . .	\$3,200 00	
Assistant City Clerk . . .	1,700 00	
Clerks . . .	2,309 09	
Other Expenses:—		
Books, postage and supplies . . .	301 17	
Printing and advertising . . .	25 75	
Telephone . . .	112 26	
Badges . . .	12 00	
Miscellaneous . . .	30 37	
	<hr/>	7,690 64
Registration of City Laborers.		
Salaries and Wages:—		
Registration Clerk . . .	\$400 00	
Other Expenses:—		
Books, postage and supplies . . .	7 53	
Printing . . .	3 75	
	<hr/>	411 28
Law Department.		
Salaries and Wages:—		
City Solicitor . . .	\$2,200 00	
Carried forward . . .	\$2,200 00	\$53,066 79

Brought forward . . .	\$2,200 00	\$53,066 79
Other Expenses:—		
Books, postage and supplies	22 97	
Telephone	15 00	
Fees	7 70	
Clerical hire and type-writing	158 40	
Medical attendance	25 00	
Miscellaneous	8 30	
	<hr/>	\$2,437 37

City Messenger's Department.**Salaries and Wages:—**

Messenger \$1,800 00

Other Expenses:—

Books, postage and supplies 5 25
 Auto maintenance 783 91
 Telephone 21 98
 Carfares 16 52

2,627 66

Engineering Department.**Salaries and Wages:—**

City Engineer \$3,200 00
 Assistants 6,167 34
 Clerk 850 31

Other Expenses:—

Books, printing, postage and supplies 120 44
 Telephone 88 42
 Auto maintenance 1,312 67
 Instruments and equipment 49 71
 Carfares 133 61
 Miscellaneous 9 08

11,931 58

Public Buildings Department, Commissioner of Public Buildings.**Salaries and Wages:—**

Commissioner \$2,500 00
 Inspector of Plumbing 1,451 43
 Clerk 942 92
 Temporary Clerks 63 34

Other Expenses:—

Books, postage and supplies 126 95
 Printing and advertising 67 95
 Telephone 126 46
 Auto maintenance 685 43
 Miscellaneous 21 34

5,985 82

Maintenance Municipal Buildings (City Hall and City Hall Annex).**Salaries and Wages:—**

Janitors \$3,676 82
 Labor 836 75

Carried forward \$4,513 57 \$76,049 22

Brought forward . . .	\$4,513 57	\$76,049 22
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Other Expenses:—

Fuel and light . . .	3,255 78
Janitors' supplies . . .	263 67
Furniture and furnishings	421 52

Repairs:—

Building	892 66
Heating apparatus . . .	133 55
Hardware and materials . . .	132 76
Ice and spring water . . .	122 60
Miscellaneous	44 51

\$9,780 62

Election Expenses, City Clerk**Salaries and Wages:—**

Clerks	\$450 00
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Other Expenses:—

Books, postage and supplies	300 72
Printing and advertising . . .	1,092 14
Carfare and auto hire . . .	236 99
Refreshments	10 62
Ballot boxes and repairs . . .	175 00
Miscellaneous	68 43

2,333 90

Election Expenses, Registrars of Voters.**Salaries and Wages:—**

Registrars	\$800 00
Clerks	180 00
City Clerk's Assistants . . .	750 00

Other Expenses:—

Books, postage and supplies	71 07
Printing and advertising . . .	700 66
Refreshments	11 25
Auto hire	11 25
Binding	9 00

2,533 23

Election Expenses, Pay of Election Officers.**Salaries and Wages:—**

Wardens and clerks . . .	\$1,584 00
Inspectors	2,808 00

4,392 00

Public Buildings Department, Polling Places.

Labor	\$138 05
Teaming	60 00
Rent	260 00
Lumber	10 28
Hardware and materials . . .	3 65
Fuel and light	24 13

496 11

Carried forward . . .		\$95,585 08
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Brought forward . . . \$95,858 08

PROTECTION OF PERSONS AND PROPERTY.

Extreme Emergency, Health and Safety.

Salaries and Wages:—

Secretary	\$300 00
Clerks	1,260 86
Investigator	67 25

Other Expenses:—

Books, postage and supplies	\$261 41
Printing and advertising	122 98
Coal	854 62
Miscellaneous supplies	406 50
Telephone	92 12
Cottage Hospital	2,915 67
Miscellaneous	37

\$6,281 78

Police Department.

Salaries and Wages:—

Chief	\$2,750 00
Captains and lieutenants	10,774 31
Sergeants and inspectors	6,404 38
Patrolmen	103,379 64
Special police	281 76
Matron and assistant matron	798 77
Other employees	3,401 36

Horses and Care of Some:—

Hay, grain and straw	201 38
Shoeing	99 15
Miscellaneous	251 67

Equipment and Repairs:—

Automobiles and motorcycles	2,736 34
Gasoline and supplies	634 76
Equipment for men	426 37
Miscellaneous	16 22

Other Expenses:—

Books, printing, postage and supplies	328 51
Care of prisoners	71 51
Telephone	268 04
Laundry	32 56
Carfares, travel, etc. . . .	176 45
Miscellaneous	59 47

133,092 65

Public Buildings Department, Maintenance Police Buildings.

Salaries and Wages:—

Janitors	\$1,350 15
Labor	499 90

Maintenance of Buildings:—

Fuel and light	2,490 09
Janitors' supplies	94 32
Furniture and furnishings	39 15

Carried forward	\$4,473 61	\$228,677 73	\$6,281 78
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Brought forward . . .	\$4,473 61	\$228,677 73	\$6,281 78
Repairs:—			
Building . . .	92 30		
Heating apparatus . . .	6 20		
Hardware and materials . . .	159 54		
Miscellaneous . . .	5 50		

4,737 15
Fire Department.**Salaries and Wages:—**

Chief Engineer . . .	\$2,750 00
Assistant Engineers . . .	4,200 00
Firemen . . .	106,040 80
Callmen . . .	2,812 49

Horses and Care of Same:—

Horses . . .	375 00
Hay, grain and straw . . .	3,622 83
Shoeing . . .	916 26
Medicine and veterinary . . .	20 90
Miscellaneous . . .	41 92

Equipment and Repairs:—

Apparatus . . .	3,318 84
Hose . . .	1,240 12
Equipment for men . . .	228 00
Power . . .	6 54
Hardware, tools, etc. . .	100 12
Miscellaneous . . .	72 85

Other Expenses:—

Books, printing, postage and supplies . . .	76 19
Telephone . . .	415 14
Janitors' supplies . . .	306 56
Furnishings . . .	106 04
Laundry . . .	270 18
Ice and spring water . . .	85 89
Miscellaneous . . .	419 14

Supplies:—

Grease and oil . . .	281 33
Gasoline . . .	932 35
Fuel . . .	286 70
Soda and acid . . .	206 56
Miscellaneous . . .	174 21

\$129,306 96
Public Buildings Department, Main-tenance Fire Buildings.**Salaries and Wages:—**

Labor . . .	\$493 88
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Maintenance of Buildings:—

Fuel and light . . .	5,768 94
Janitors' supplies . . .	45 00
Furniture and furnish-ings . . .	341 69

Repairs:—

Buildings . . .	2,641 07
Heating apparatus . . .	3 40
Hardware and materials . . .	319 97
Miscellaneous . . .	7 16

9,621 11

Carried forward . . .	\$372,342 95	\$6,281 78
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Brought forward . . .	\$372,342 95	\$6,281 78
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Weights and Measures Department.**Salaries and Wages:—**

Sealer	\$1,200 00
Deputy sealer	1,150 00
Labor	21 00

Other Expenses:—

Books, postage and supplies	31 46
Printing and advertising	20 25
Equipment	65 79
Telephone	28 60
Auto maintenance	367 28

\$2,884 38

Electrical Department.**Salaries and Wages:—**

Commissioner	\$2,000 00
Clerk	652 08
Labor	9,202 95

Other Expenses:—

Fire Alarm Signal System	726 56
Police Alarm System	328 78
Auto maintenance	309 22
Telephone	127 23
Books, printing, postage and supplies	68 45
Furnishings	18 57
Miscellaneous	8 17

13,442 01

Public Buildings Department, Maintenance Electrical Departmental Building.**Salaries and Wages:—**

Labor	\$3 00
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Other Expenses:—

Fuel	655 01
Light	87 73
Janitors' supplies	20 63
Furniture and furnishings	22 00
Repairs:—	
Heating apparatus	57 90
Hardware, and materials	50 63
Miscellaneous	79

897 69

Suppression of Moths.**Salaries and Wages:—**

Labor	\$3,018 30
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Other Expenses:—

Books, printing, postage and supplies	56 35
Teams	205 83
Hardware, tools and equipment	191 20
Insecticides	650 88

Carried forward	\$4,122 56	\$389,567 03	\$6,281 78
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Brought forward . . .	\$4,122 56	\$389,567 03	\$6,281 78
Oil and supplies . . .	32 25		
Convention expenses . . .	9 00		
	<hr/>	4,163 81	

Care of Trees**Salaries and Wages:—**

Labor \$2,114 51

Other Expenses:—

Teams 445 12

Equipment, hardware and tools 110 34

Use of roller 14 00

Insecticides 5 56

Other materials and supplies 52

Miscellaneous 69 34

2,759 39

HEALTH AND SANITATION.**Health Department.****General Administration:—****Salaries and Wages:—**

Agent \$1,200 00

Clerk 1,500 00

Books, printing, postage and supplies 479 65

Telephone 176 97

Miscellaneous 60 48

Quarantine and Contagious Diseases:—**Board and Treatment:—**

Cities and towns 1,199 78

Medical attendance 345 18

Tuberculosis:—**Board and Treatment:—**

Cities and towns 1,230 21

State 2,074 29

Groceries and provisions 461 00

Clothing 15 01

Miscellaneous 14 05

Other Expenses:—

Acting Medical Inspector 1,224 99

Acting Bacteriologist 645 00

Laboratory equipment and supplies 225 36

Autos and maintenance 1,659 41

Burying dead animals 74 75

Miscellaneous 17 85

12,603 98

City Clerk's Department, Vital Statistics.**Canvassing and reporting**

births \$781 10

Reporting deaths 173 25

Books, postage and supplies 84 89

Carried forward	\$1,039 24	\$409,094 21	\$6,281 78
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Brought forward . . .	\$1,039 24	\$409,094 21	\$6,281 78
Advertising, printing, etc. .	18 00		
Miscellaneous . . .	4 25		

1,061 49
Contagious Hospital.**Salaries and Wages:—**

Matron	\$717 82
Nurses and other help .	7,623 34

Other Expenses:—

Drugs and medicines .	187 45
Dry goods and clothing .	33 72
Groceries and provisions	7,222 85
Utensils and supplies .	1,492 25
Telephone	116 91
Miscellaneous	167 40

17,561 74
Public Buildings Department, Maintenance Contagious Hospital.**Salaries and Wages:—**

Janitor and labor . . .	\$788 27
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Other Expenses:—

Fuel	2,168 12
Light	660 24
Janitors' supplies . . .	20 27
Furniture and furnishings	19 50

Repairs:—

Buildings	99 66
Heating apparatus . . .	37 09
Insurance	173 20
Repairing Incinerator . .	25 00
Concrete walks	97 00
Hardware and materials .	71 86
Miscellaneous	3 58

4,163 79
Inspection of Animals and Provisions.**Salaries and Wages:—**

Inspector	\$1,700 00
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Other Expenses:—

Telephone	31 55
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1,731 55
Inspection of Milk and Vinegar.**Salaries and Wages:—**

Inspector	\$1,700 00
Milk Collector	914 68

Other Expenses:—

Books, printing and postage	44 78
Equipment and supplies .	339 45
Telephone	30 64
Auto maintenance . . .	641 14
Miscellaneous	31 11

3,701 80
Inspection of School Children.**Salaries and Wages:—**

Inspectors	\$1,595 77
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Carried forward	\$1,595 77	\$437,314 58	\$6,281 78
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Brought forward	\$1,595 77	\$437,314 58	\$6,281 78
Books, printing and sup- plies	12 75		
Miscellaneous	42 94		
		1,651 46	
School Nurses' Salaries.			
Salaries and Wages:—			
Nurses	\$1,650 00		
		1,650 00	
Sewers Construction.			
Salaries and Wages:—			
Inspector	\$168 64		
Labor	1,999 44		
Other Expenses:—			
Hired teams	475 96		
Pipe and fittings	340 91		
Stone, brick and cement	20 40		
Castings	393 39		
Contracts	889 91		
Less service transfers for brick and cement furnished other de- partments	\$29 15		
Refund cement bags	36 00		
		65 15	
			\$4,223 50
		\$4,288 65	
Engineering Department, Sewers Main- tenance.			
Salaries and Wages:—			
Inspectors	\$601 32		
Labor	10,237 09		
Other Expenses:—			
Hired teams	7,733 31		
Tools and equipment	375 30		
Pipe and fittings	12 29		
Castings	13 00		
Other materials and sup- plies	169 14		
Care Medford Street pump	194 60		
Telephone	50 52		
Miscellaneous	181 15		
		19,567 72	
Public Buildings Department, Main- tenance Sewer Buildings.			
Salaries and Wages:—			
Labor	\$16 26		
Other Expenses:—			
Fuel	58 71		
Light	46 36		
Repairs to buildings	4 91		
Lumber and materials	2 69		
Repairing fence	12 30		
Flag pole	15 50		
		156 73	
Carried forward		\$460,340 49	\$10,505 28

Brought forward . . .		\$460,340 49	\$10,505 28
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Sanitary Department.**General Administration:**

Superintendent . . .	\$1,800 00
Bookkeeper . . .	300 00
Books, printing and sup- plies . . .	15 00
Auto maintenance . .	216 26
Telephone . . .	45 26
Miscellaneous . . .	1 97

Ashes, Rubbish and Garbage:—

Labor . . .	75,195 62
Hired teams . . .	28,093 00
Equipment and repairs .	517 68
Rent of dump . . .	600 00
Materials and supplies .	8 66

Stable Expenses:—

Horses . . .	435 96
Hay, grain and straw .	9,220 21
Shoeing . . .	614 88
Medicine and veterinary	53 15
Equipment . . .	302 53

117,420 18
Public Buildings Department, Maintenance**Sanitary Buildings.**

Labor . . .	\$80 90
Fuel . . .	120 95
Light . . .	241 97
Lumber and materials .	253 54

Repairs:—

Buildings . . .	5 88
Miscellaneous . . .	75

\$703 99
Street Cleaning.

Labor . . .	\$20,419 98
Hired teams . . .	4,409 70
Equipment . . .	366 24

25,195 92
HIGHWAYS.**Highway Maintenance.****General Administration:—**

Superintendent . . .	\$2,500 00
Bookkeeper and clerk .	1,790 47
Books, printing, postage and supplies . . .	205 78
Telephone . . .	181 45
Auto and maintenance .	1,441 45
Miscellaneous . . .	10 23

General:—

Labor . . .	35,370 49
Hired teams . . .	503 14
Tools, equipment and re- pairs . . .	827 37
Edgestone, paving blocks, brick and cement . .	86 07

Carried forward . . .	\$42,916 45	\$603,660 58	\$10,505 28
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Brought forward	\$42,916 45	\$603,660 58	\$10,505 28.
Broken stone, gravel, etc.	2,994 74		
Tarvia and road oil	5,361 67		
Lumber	228 10		
Hardware, paint and varnish	204 35		
Fuel	1,470 47		
Oil and waste	302 50		
Other materials and supplies	388 75		
Hay, grain and straw	8,518 54		
Shoeing	287 19		
Veterinary and medicine	186 34		
Harnesses and horse clothing	262 64		
Miscellaneous	21 96		
Other Expenses:—			
Signs	242 22		
Granolithic sidewalk, Boston Ave.	64 10		
Taxes 1918, City of Waltham	191 88		
Miscellaneous	33 34		
	<hr/>		
	\$63,675 24		
Less service transfers for teams furnished other departments	12,125 96		
	<hr/>	51,549 28	
Highways Construction, New Streets.			
Labor	\$6,835 07		
Hired teams	1,370 93		
Contracts	7,141 04		
Tools and equipment	392 53		
Use of roller and mixer	666 44		
Tarvia	2,895 30		
Stone, gravel and cement	4,867 29		
Edgestone and circles	6,124 10		
Recording documents	29 25		
Miscellaneous	45 66		
	<hr/>		
		30,367 61	
Sidewalks Maintenance.			
Labor	\$4,323 36		
Hired teams	763 13		
Stone, brick and cement	1,115 32		
Other materials and supplies	5 70		
	<hr/>		
		6,207 51	
Street Sprinkling.			
Labor	\$3,626 26		
Hired teams	2,197 18		
Equipment and repairs	641 80		
Oil and other dust layers	24,709 47		
Hardware and materials	115 22		
Use of car sprinkler	5,047 15		
	<hr/>		
Carried forward	\$36,337 08	\$661,417 37	\$40,872 89

Brought forward . . .	\$36,337 08	\$661,417 37	\$40,872 89
Maintenance water posts and hydrants . . .	255 46		
Miscellaneous . . .	33 72		
	<hr/>	36,626 26	

Street Lighting.

Electric lighting in accord- ance with contract . . .	\$63,987 20		
Lighting Prospect Hill Tower . . .	12 80		
	<hr/>	64,000 00	

**Public Buildings Department, Main-
tenance Highway Buildings.**

Labor . . .	\$126 75		
Fuel . . .	300 43		
Light . . .	190 51		
Lumber . . .	119 43		
Hardware and materials . .	73 58		
Repairs:—			
Buildings . . .	46 93		
Heating apparatus . . .	10 10		
	<hr/>	867 73	

CHARITIES.**Poor Department.**

Advance for immediate aid	\$3,000 00		
	<hr/>	3,000 00	

Poor Department, Miscellaneous.

General Administration:—			
Agent . . .	\$1,785 49		
Clerks . . .	1,703 24		
Books, printing, postage and supplies . . .	198 71		
Telephone . . .	110 65		
Miscellaneous . . .	8 00		
Outside Relief:—			
City Physician . . .	1,800 00		
Acting City Physician . .	95 00		
Auto maintenance . . .	100 00		
Board and care . . .	3,055 72		
Cash . . .	32,472 72		
Cash allowances . . .	378 95		
Coal and wood . . .	486 76		
Groceries and provisions . .	5,398 83		
Medicine and medical at- tendance . . .	196 64		
Nursing . . .	139 75		
State Institutions . . .	247 45		
Somerville Hospital . . .	7,856 83		
Contagious Hospital . . .	62 15		
Other Institutions . . .	392 42		
Burials . . .	190 00		
Miscellaneous . . .	61 19		
Relief by Other Cities and Towns:—			
Cities . . .	4,185 95		
Towns . . .	454 71		

Carried forward . . .	\$61,381 16	\$765,911 36	\$40,872 89
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Brought forward . . .	\$61,381 16	\$765,911 36	\$40,872 89
Mothers' Aid:—			
Other Cities and Towns	1,951 12		
	<hr/>	63,332 28	

Poor Department, City Home.**Salaries and Wages:—**

Warden and Matron . . .	\$1,750 00
Bookkeeper	100 00
Domestic labor	1,940 56
Farm labor	2,444 31

Other Expenses:—

Groceries and provisions	5,078 69
Ice	97 81
Clothing	223 04
Medicine and hospital goods	92 51
House furnishings and supplies	463 02
Farm equipment and supplies	1,111 62
Live stock and care	143 50
Hay, grain, straw and feed	821 88
Garbage	636 80
Seeds and fertilizer	140 65
Horse shoeing	59 85
Power	58 39
Telephone	61 87
Books, stationery and postage	21 52
Miscellaneous	144 18

15,390 20

Public Buildings Department, Maintenance City Home Buildings.

Labor	\$531 25
Fuel	1,776 46
Light	379 88
Furniture and furnishings	11 14
Lumber	280 80
Hardware and materials	97 65
Repairs:—	
Building	103 96
Heating apparatus	49 80
Insurance	101 61
Miscellaneous	1 60

\$3,334 15

SOLDIERS' BENEFITS.**Soldiers' Benefits, General Administration.****Salaries and Wages:—**

Agent	\$300 00
Clerk	750 00
Temporary clerk	28 80

Other Expenses:—

Miscellaneous	65 99
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1,144 79

Carried forward		\$849,112 78	\$40,872 89
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Brought forward		\$849,112 78	\$40,872 89
Soldiers' Relief.			
Cash as per pay rolls	\$22,402 72		
Medicine and medical attendance	23 05		
	<hr/>	22,425 77	
Military Aid.			
Cash as per pay rolls	\$170 00		
	<hr/>	170 00	
State Aid.			
Cash as per pay rolls	\$12,746 00		
	<hr/>	12,746 00	
State Aid-German War.			
Cash as per pay rolls	\$67 280 53		
	<hr/>	67,280 53	
Soldiers' Burials.			
Burials	\$150 00		
	<hr/>	150 00	

EDUCATION.

School Contingent.			
Salaries and Wages:—			
Superintendent	\$3,850 00		
Assistant Superintendent	919 15		
Clerks	3,714 40		
Truant Officer	1,500 00		
Other employees	186 73		
General Expenses:—			
Printing, postage and office supplies	753 61		
Telephone	846 19		
Traveling expenses	290 27		
Filing case	22 98		
Typewriter	48 60		
Miscellaneous	478 71		
Textbooks and Supplies:—			
Text and reference books	8,825 34		
Maps	254 28		
Stationery and supplies	13,911 36		
Equipment and repairs	5,450 51		
Other Expenses:—			
Tuition	647 96		
Support of truants	386 01		
Diplomas and graduation	363 46		
Miscellaneous printing	615 06		
Power	680 14		
Auto maintenance	541 77		
Miscellaneous	214 09		
	<hr/>	44,500 62	
School Teachers' Salaries.			
Day Schools	\$402,737 58		
Evening Schools	5,948 00		
	<hr/>	408,685 58	
Maintenance School Buildings, Janitors' Salaries.			
Janitors' Salaries	\$39,817 44		
	<hr/>	39,817 44	
Carried forward		\$1,444,888 72	\$40,872 89

Brought forward		\$1,444,888 72	\$40,872 89
Maintenance School Buildings, Fuel and Light.			
Fuel	\$55,559 13		
Light	5,778 92		
	<hr/>	61,338 05	
Maintenance School Buildings, Buildings and Grounds.			
Labor	\$7,162 73		
Furniture and furnishings	2,135 87		
Janitors' supplies	1,552 68		
Lumber	1,194 87		
Glass, hardware and paint	2,120 72		
Other materials and supplies	2,582 07		
Repairs:—			
Buildings	7,479 48		
Heating apparatus	2,657 55		
Care of grounds	430 14		
Flags and flag poles	423 15		
Power	386 16		
Telephone for Exemption Board	10 67		
Auto maintenance	388 75		
Insurance	207 88		
Use of Armory	382 50		
Use of Y. M. C. A. Gymnasium	350 00		
Miscellaneous	650 23		
	<hr/>	30,121 45	
New School Building, Holland Street.			
Payments on contract	\$1,800 00		
Furniture and furnishings	229 20		
Plumbing	23 31		
Laying gas pipe	49 46		
Hardware and materials	191 26		
Grading grounds	129 25		
Setting circles	143 24		
	<hr/>		\$2,565 72
Boys' Industrial School Addition			
Electric lights and fixtures	\$115 00		
Furniture and furnishings	183 66		
Hardware and materials	13 69		
Miscellaneous	11 73		
	<hr/>		324 08
Boys' Industrial School Addition No. 2.			
Contract for construction	\$13,168 47		
Water service	110 68		
Blueprints	5 51		
	<hr/>		13,284 66
Southern Junior High School			
Payments on contract	\$57,984 00		
Architect	2,438 91		
Furniture and furnishings	3,691 22		
Clock system	151 35		
	<hr/>		
Carried forward	\$64,265 48	\$1,536,348 22	\$57,047 35

Brought forward	\$64,265 48	\$1,536,348 22	\$57,047 35
Heating and ventilating	8,431 50		
Plumbing	8,238 50		
Hardware	975 00		
Lumber	264 48		

82,174 96

Building Connection Forster School.

Constructing passageway	\$1,985 25		
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1,985 25

SCHOOL TRUST FUNDS.**S. Newton Cutler Fund.**

Books	\$104 09		
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\$104 09

Smith-Hughes Fund.

School teachers' salaries	\$260 00		
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260 00

LIBRARIES.**Central Library.****Salaries and Wages:—**

Librarian	\$2,202 05		
Assistants	12,164 66		

Books, Periodicals, Etc.:—

Books	4,731 02		
Periodicals	642 80		
Music	103 16		
Binding	1,186 94		

Other Expenses:—

Postage and office supplies	947 27		
Printing and advertising	473 55		
Catalogue cards	100 00		
Telephone	149 41		
Express	191 92		
Agencies	7 59		
Miscellaneous	99 35		

22,999 72

Public Buildings Department, Maintenance Central Library.

Janitors	\$1,429 24		
Labor	252 50		
Fuel	246 11		
Light	875 88		
Furniture and furnishings	23 97		
Janitors' supplies	126 50		
Hardware and materials	26 37		
Repairs:—			
Building	38 12		
Heating apparatus	49 56		
Flag pole	15 00		

3,083 25

West Somerville Branch Library.**Salaries and Wages:—**

Assistants	\$4,188 21		
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Carried forward	\$4,188 21	\$1,562,795 28	\$141,207 56
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Brought forward	\$4,188 21	\$1,562,795 28	\$141,207 56
Books, Periodicals, Etc.:—			
Books	1,446 41		
Periodicals	297 40		
Music	3 63		
Binding	538 95		
Other Expenses:—			
Postage and office sup- plies	113 53		
Printing and advertising	22 45		
Telephone	56 99		
Express	99 35		
Miscellaneous	1 38		
		6,768 30	

**Public Buildings Department, Main-
tenance West Somerville Branch Li-
brary.**

Janitor	\$1,074 00		
Labor	219 13		
Fuel	467 44		
Light	316 75		
Furniture and furnishings	13 00		
Janitors' supplies	1 60		
Hardware and materials . .	94 86		
Repairs:—			
Building	47 56		
Heating apparatus	5 11		
Miscellaneous	38 10		
		2,277 55	

East Somerville Branch Library.

Salaries and Wages:—			
Assistants	\$2,119 62		
Books, Periodicals, Etc.:—			
Books	543 35		
Periodicals	99 38		
Binding	302 55		
Other Expenses:—			
Postage and office sup- plies	118 44		
Printing and advertising	14 20		
Telephone	35 53		
Express	105 33		
		3,338 40	

**Public Buildings Department, Main-
tenance East Somerville Branch Li-
brary.**

Janitor	\$680 72		
Labor	83 46		
Fuel	349 94		
Light	96 51		
Furniture and furnishings	11 05		
Hardware and materials . .	29 46		
Repairs:—			
Building	35 08		
Rent	100 00		
Carried forward	\$1,386 22	\$1,575,179 53	\$141,207 56

Brought forward	\$1,386 22	\$1,575,179 53	\$141,207 56
Grading	98 96		
Miscellaneous	21 00		

1,506 18
Union Square and Branch Library.**Salaries and Wages:—**

Assistants	\$2,226 02
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Books, Periodicals, Etc.:—

Books	876 97
Periodicals	116 02
Binding	280 55

Other Expenses:—

Postage and office supplies	90 56
Printing and advertising	10 85
Telephone	34 62
Express	99 32

3,734 91
Public Buildings Department, Maintenance Union Square Branch Library.

Janitor	\$799 00
Labor	64 02
Fuel	224 73
Light	144 33
Furniture and furnishings	3 30
Repairs:—	
Building	2 25
Hardware and materials	9 95
Miscellaneous	13 06

1,260 64
New East Somerville Branch Library.

Architect	\$230 00
Payment on contract	2,717 00
Labor	54 00
Lighting fixtures	318 00
Grading grounds	75 79
Furniture and furnishings	1,318 00
Miscellaneous	2 12

\$4,714 91
PUBLIC LIBRARY TRUST FUNDS.**S. Newton Cutler Fund.**

Books	\$50 00
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\$50 00
Martha R. Hunt, Book Fund.

Books	\$257 23
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\$257 23
Isaac Pitman, Art Fund.

Books and music	\$94 40
Pictures	45 00

\$139 40
Isaac Pitman, Poetry Fund.

Books	\$20 25
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\$20 25

Carried forward		\$1,582,148 14	\$145,922 47
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RECREATION.

Brought forward . . . \$1,582,148 14 \$145,922 47

Engineering Department, Parks Maintenance.

Labor	\$6,019 23
Teaming	947 57
Equipment	170 60
Trees, shrubs, plants, etc.	261 60
Hardware and materials .	212 05
Carpentry and repairs .	525 32
Flags and flag poles . .	139 19
Miscellaneous	68 86

8,344 42

Public Buildings Department, Maintenance Park Buildings.

Labor	\$378 70
Teams	39 50
Fuel	64 49
Light	248 51
Janitors' supplies . . .	29 22
Hardware and materials .	11 24
Repairs:—	
Buildings	11 48
Heating apparatus . .	17 15
Laundry	36 33
Miscellaneous	6 10

842 72

Engineering Department, Playgrounds Maintenance.

Labor	\$2,905 92
Teaming	347 66
Apparatus	41 25
Tools and equipment . .	2 50
Materials and supplies .	80 76
Repairing fountains and bubblers	47 36
Use steam roller	37 50

3,462 95

Playground and Recreation Commission.**Salaries and Wages:—**

Supervisors	\$937 88
Instructors	1,116 74
Social worker	735 40
Other helpers	270 38

Other Expenses:—

Equipment and supplies .	68 50
Use of auto, plowing and teaming	216 25
Piping	35 67
Miscellaneous	82 94

\$3,463 76

Public Buildings Department, Maintenance Bathhouse.**Salaries and Wages:—**

Attendants	\$1,091 21
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Carried forward	\$1,091 21	\$1,598,261 99	\$145,922 47
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Brought forward . . .	\$1,091 21	\$1,598,261 99	\$145,922 47
Labor	82 45		
Other Expenses:—			
Bathing suits	184 81		
Towels	72 37		
Equipment and supplies	23 49		
Repairs	48 56		
Laundry	56 07		
Telephone	15 09		
Insurance	82 40		
Sand	80 00		
Repairing walks . . .	164 79		
Miscellaneous	13 91		
		1,915 15	
Celebration, Victory Day.			
Fireworks	\$400 00		
Music	269 50		
Signs	11 00		
		680 50	

UNCLASSIFIED.

Memorial Day.			
Flags and wreaths . .	\$114 73		
Music and catering . .	236 50		
Miscellaneous	36 99		
		388 22	
Municipal Documents.			
Printing:			
Annual reports	\$1,138 70		
Municipal manuals . .	105 95		
Postage	4 66		
Miscellaneous	2 88		
		1,252 19	
Workmen's Compensation.			
Books, postage and supplies	\$4 00		
Compensation	2,366 01		
Medicine and medical attendance	122 90		
		2,492 91	
Pensions.			
Janitors	\$1,742 27		
Police	6,894 98		
Fire	3,567 97		
Health	750 00		
Poor	6 98		
Laborers:—			
Highway	3,553 24		
Sanitary	338 73		
Water	1,156 16		
		18,010 33	
Damage to Persons and Personal Property.			
Settlement of claims . .	\$4,328 21		
Plumbing repairs . . .	7 93		
		4,336 14	
Carried forward . . .		\$1,627,337 43	\$145,922 47

Brought forward . . .	\$1,627,337 43	\$145,922 47
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MUNICIPAL INDEBTEDNESS.**Interest.****Temporary Loans:—**

Anticipation of Revenue . . .	\$48,543 91
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General:—

Sewer	11,533 75
Highway	14,325 00
Municipal	2,115 00
City	22,143 75
Bridge	1,102 50
Metropolitan Park	420 00
Public Buildings	13,270 00
Emergency	1,062 50

114,516 41
Reduction of Funded Debt.**General Loans:—**

Sewer	\$23,000 00
Highway	79,000 00
Municipal	8,000 00
City	105,500 00
Bridge	1,000 00
Metropolitan Park	1,000 00
Public Building	24,000 00
Emergency	5,000 00

246,500 00—
WATER WORKS.**Water Maintenance.****Administration:—**

Commissioner	\$2,500 00
Clerks	5,407 55
Books, printing, postage and supplies	1,529 86
Telephone	234 14
Carfares	71 31
Miscellaneous	476 13

General:—

Labor	32,274 54
Teams	96 25
Pipe and fittings	785 34
Meters and fittings	1,724 03
Hydrants and fittings	898 56
Castings	287 63
Tools, equipment and re- pairs	1,636 47
Automobiles and mainte- nance	3,375 34
Horses, feed, shoeing, etc. . .	606 38
Gasoline	1,273 55
Kerosene	437 16
Other materials and sup- plies	1,251 80
Freight and express	168 57
Power	40 69

Carried forward	\$55,075 30	\$1,988,353 84	\$145,922 47
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Brought forward . . .	\$55,075 30	\$1,988,353 84	\$145,922 47
Miscellaneous . . .	18 02		
Other Expenses:—			
Repair of streets . . .	228 38		
Use of thawing machine . . .	958 59		
	<u>\$56,280 29</u>		
Less service transfers for teams furnished other de- partments	\$268 74		
		<u>\$56,011 55</u>	
Water Works Extension.			
Labor	\$1,507 53		
Teams	194 00		
Pipe and fittings . . .	3,066 27		
Meters and fittings . . .	872 32		
Tools and equipment . . .	71 20		
Contracts, trench work . . .	110 47		
	<u></u>	<u>5,821 79</u>	
Public Buildings Department, Main- tenance Water Buildings.			
Labor	\$132 10		
Fuel	523 91		
Light	244 17		
Furniture and furnishings . . .	9 82		
Repairs:—			
Buildings	34 99		
Hardware and materials . . .	94 48		
Miscellaneous	27 97		
	<u></u>	<u>1,067 44</u>	
Interest.			
Water Loans	\$440 00		
	<u></u>	<u>440 00</u>	
Reduction of Water Debt.			
Water Bonds	\$5,000 00		
	<u></u>	<u>5,000 00</u>	
Metropolitan Water Assessment.			
Assessment	\$125,358 55		
	<u></u>	<u>125,358 55</u>	

OTHER ACCOUNTS.

Temporary Loans.			
Loans in anticipation of revenue	\$1,385,000 00		
	<u></u>	<u>1,385,000 00</u>	
Real Estate Liens.			
Titles purchased by city . . .	\$2,413 29		
	<u></u>	<u>2,413 29</u>	
Grade Crossing Advance.			
Land damages	\$36,800 00		
Services as auditor	50 00		
	<u></u>	<u>36,850 00</u>	
State Taxes.			
State	\$175,560 00		
State Highway	1,310 01		
Non-Resident Bank	2,863 34		
	<u></u>	<u>179,733 35</u>	
Carried forward		<u>\$3,786,049 81</u>	<u>\$145,922 47</u>

Brought forward . . .		\$3,786,049 81	\$145,922 47
Metropolitan and Other Assessments.			
Metropolitan Park . . .	\$43,457 01		
Metropolitan Sewer . . .	80,430 29		
Wellington Bridge . . .	3,173 78		
Grade Crossings . . .	12,354 20		
Charles River Basin . . .	7,457 52		
Alewife Brook . . .	1,197 94		
Abatement of Smoke . . .	307 55		
Fire Prevention . . .	975 33		
Soldiers' Exemption . . .	124 34		
		149,477 96	
County of Middlesex			
County Tax, 1918 . . .	\$87,003 63		
		87,003 63	
Cash Refunds.			
Taxes . . .	\$324 28		
Moths and Street Sprink- ling Assessments . . .	179 70		
Water Rates . . .	361 88		
		865 86	
Tellers' Overs and Shorts.			
Adjustments . . .	\$73 25		
		73 25	

PRIVATE TRUST.

Redemption of Tax Titles.			
Tax titles redeemed . . .	\$2,522 59		
		2,522 59	
Totals . . .		\$4,025,993 10	\$145,922 47
*Appropriation Refunds . . .		1,349 65	2,399 44
		\$4,027,342 75	\$148,321 91
Total Cash Payments . . .			\$4,175,664 66

*Expenditures as shown in all accounts are net.

SCHEDULE OF PUBLIC PROPERTY.

School Buildings	Land and Buildings	Personal	Totals
Prescott	\$72,200 00	\$3,000 00	\$75,200 00
East Somerville Junior			
High	62,000 00	2,000 00	64,000 00
Hanscom	66,500 00	4,000 00	70,500 00
Davis	52,900 00	6,600 00	59,500 00
Clark Bennett	54,500 00	3,500 00	58,000 00
Knapp	50,000 00	5,500 00	55,500 00
Baxter	35,500 00	1,500 00	37,000 00
Perry	42,000 00	1,500 00	43,500 00
Bell and Southern Junior			
High	130,000 00	8,900 00	138,900 00
Prospect Hill	18,000 00	.....	18,000 00
Pope	78,600 00	5,000 00	83,600 00
Cummings	13,400 00	1,200 00	14,600 00
Edgerly	43,000 00	5,000 00	48,000 00
*High	360,000 00	30,000 00	390,000 00
Glines	88,400 00	5,000 00	93,400 00
Forster	59,000 00	8,000 00	104,000 00
Forster (Annex)	37,000 00	.....	.....
†Proctor	44,000 00	.....	44,000 00
Bingham	73,000 00	5,000 00	78,000 00
Morse	54,000 00	5,000 00	59,000 00
Carr	53,600 00	5,000 00	62,600 00
Girls' Industrial School	4,000 00	.....	.....
Durell	20,400 00	1,500 00	21,900 00
Burns	39,000 00	3,000 00	42,000 00
Brown	72,000 00	2,600 00	74,600 00
Highland	66,600 00	5,000 00	71,600 00
Lowe	51,000 00	2,000 00	53,000 00
Hodgkins	98,700 00	5,000 00	103,700 00
‡West Somerville Junior			
High	80,000 00	4,000 00	84,000 00
Lincoln	19,800 00	1,000 00	20,800 00
Cutler	98,700 00	10,000 00	108,700 00
Total	\$2,037,800 00	\$139,800 00	\$2,177,600 00

*Land included in Central Hill Park.

†Building and fixtures. Land owned by State.

‡Land included in Holland Street Ledge.

Fire Buildings.

New fire alarm building	\$27,500 00	*\$103,000 00	\$178,200 00
Central	47,700 00	.....	.....
Engine Two	37,000 00	12,000 00	49,000 00
Engine Six	29,000 00	20,000 00	49,000 00
Hose Five	21,500 00	7,500 00	29,000 00
Ladder One	60,000 00	15,500 00	75,500 00
Hose Eight	10,400 00	7,700 00	18,100 00
Ladder Two	17,600 00	15,000 00	32,600 00
Engine Four	19,500 00	7,000 00	26,500 00
Total	\$270,200 00	\$187,700 00	\$457,900 00

*Includes Electrical Department equipment.

Libraries.

†Central	\$125,000 00	\$100,000 00	\$225,000 00
East Somerville Branch	24,400 00	.....	24,400 00
West Somerville Branch	30,000 00	6,000 00	36,000 00
Total	\$179,400 00	\$106,000 00	\$285,400 00

Miscellaneous Buildings.

Highway (stables, etc.)	\$55,000 00	\$30,000 00	\$85,000 00
Sewer	6,700 00	500 00	7,200 00
Contagious and Tuberculo- sis Hospital	45,900 00	9,000 00	54,900 00
City Home	92,900 00	17,000 00	109,900 00
Police	64,300 00	8,000 00	72,300 00
†City Hall	52,000 00	149,000 00	201,000 00
†City Hall Annex	62,000 00	12,500 00	74,500 00
Parks:—			
Broadway	3,100 00	.....	3,100 00
Lincoln	3,000 00	1,000 00	4,000 00
Bathhouse	5,000 00	.....	5,000 00
Polling Booths	1,800 00	.....	1,800 00
Sanitary	21,000 00	19,200 00	40,200 00
Water	46,700 00	6,500 00	53,200 00
Total	\$459,400 00	\$252,700 00	\$712,100 00

†Land included in Central Hill Park.

Parks and Playgrounds.

Broadway	\$421,200 00	.....	\$421,200 00
Central Hill	472,000 00	.....	472,000 00
Lincoln	84,500 00	2,000 00	86,500 00
Prospect Hill	69,800 00	1,500 00	71,300 00
Tufts	109,000 00	.....	109,000 00
Paul Revere	1,000 00	.....	1,000 00
Belmont Street	5,100 00	.....	5,100 00
City Field	70,900 00	.....	70,900 00
Glen Street	17,300 00	.....	17,300 00
Kent Street	12,000 00	.....	12,000 00
Poplar Street	5,500 00	.....	5,500 00
Beacon Street	3,000 00	.....	3,000 00
Webster Avenue	3,000 00	.....	3,000 00
Mason Street	4,200 00	.....	4,200 00
Somerville Field	40,000 00	20,000 00	60,000 00
Total	\$1,318,500 00	\$23,500 00	\$1,342,000 00

Miscellaneous Land.

Ledge, Holland Street	\$54,500 00	.....	\$54,500 00
Somerville Avenue	300 00	.....	300 00
Putnam	400 00	.....	400 00
Murdock Street	600 00	.....	600 00
Lowell Street	100 00	.....	100 00
Spencer Avenue	100 00	.....	100 00
Weston Avenue	2,500 00	.....	2,500 00
Endicott Avenue	600 00	.....	600 00
Powder House Boulevard	400 00	.....	400 00
Waltham Gravel Land	10,000 00	.....	10,000 00
<hr/>			
Total	\$69,500 00	.....	\$69,500 00

SUMMARY.

	Land and Buildings	Personal	Total
School Buildings	\$2,037,800 00	\$139,800 00	\$2,177,600 00
Fire Buildings	270,200 00	187,700 00	457,900 00
Libraries	179,400 00	106,000 00	285,400 00
Miscellaneous Buildings	459,400 00	252,700 00	712,100 00
Parks and Playgrounds	1,318,500 00	23,500 00	1,342,000 00
Miscellaneous Land	69,500 00	.....	69,500 00
<hr/>			
Total	\$4,334,800 00	\$709,700 00	\$5,044,500 00
Sewers (cost)			1,346,752 90
Water Works (cost)			1,067,010 38
			<hr/>
Total value public property			\$7,458,262 38

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Somerville, Mass., January 30, 1919.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:

Gentlemen: In presenting the annual report of the City
Treasurer and Collector of Taxes for the year 1918, I respect-
fully call attention to the following items of interest:

The assessors' warrants amounted to	\$2,053,862 53
The amount for 1917 was	1,828,330 55
Showing an increase of	<u>\$225,531 98</u>

The personal taxes were \$111,677.80 more than in 1917; the
poll taxes, because of exemptions for men in the military or
naval service, were \$2,412 less than in 1917, but the cash col-
lections from polls of 1918 were only \$214.00 less than for the
corresponding period of 1917; with the larger total to collect,
the uncollected December 31, 1918, was only \$5,099.12 more
than on the corresponding date of the previous year, viz:

	1917.	1918.	Balance.
Taxes	\$359,205 97	\$365,013 39	
Street Sprinkling	8,771 15	8,145 35	
Moths	316 75	234 25	
	<u>\$368,293 87</u>	<u>\$373,392 99</u>	<u>\$5,099 12</u>

The payments on account of Grade Crossings abolition
were \$36,850.00, and the receipts on this account were
\$36,800.00. The decrees of the court on account of Grade Cross-
ings abolition from December 26, 1908, to December 31, 1918,
were \$120,097.10. The amount paid out and the amount to be
paid on these decrees will be found in a table following.

The amount borrowed on temporary loans in anticipation
of taxes was \$1,484,000.00; in 1917 the amount was \$1,500,000.
On account of war conditions, the rates of interest were much
higher than in 1917, but it is confidently expected that the rates
for 1919 will be considerably less than in 1918. The various
rates of interest paid are given in a Temporary Loans table.

The report also contains an interesting statement of the
amounts paid on account of Debt, including amounts paid on
account of Metropolitan assessments as well as on the city
debt; and your attention is called to the large amount neces-
sary to be paid for interest, particularly on the Metropolitan
assessments.

Respectfully submitted,

JOSEPH S. PIKE,
City Treasurer and Collector of Taxes.

CONDENSED CASH STATEMENT.

RECEIPTS.		PAYMENTS.	
Revenue . . .	\$4,171,492 56		\$4,029,753 56
Non-Revenue . . .	6,922 03		145,911 00
	<hr/>		<hr/>
	\$4,178,414 59		\$4,175,664 66
Cash balance, Jan- uary 1, 1918 . . .	237,246 23	Cash balance, De- cember 31, 1918 . . .	239,996 16
	<hr/>		<hr/>
	\$4,415,660 82		\$4,415,660 82
	<hr/>		<hr/>

DETAILED CASH STATEMENT.

RECEIPTS.		
Balance from 1918 . . .		\$237,246 23.
Revenue.		
Advances, C. C. Folsom . . .	\$1,599 00	
Taxes, 1916	\$789 74	
1917	350,572 04	
1918	1,642,301 91	
	<hr/>	1,993,663 69
Excise taxes, 1918		233 03
Street Sprinkling, 1916	\$3 50	
1917	8,655 40	
1918	28,785 50	
	<hr/>	37,444 40
Moth assessments, 1917	\$311 15	
1918	861 50	
	<hr/>	1,172 65
Highway, 1916	\$954 65	
1917	8,100 32	
1918	4,328 24	
	<hr/>	13,383 21
Sidewalk, 1916	\$1,587 77	
1917	5,000 22	
	<hr/>	6,587 99
Sewer, 1916	\$1,414 07	
1917	589 19	
1918	663 60	
	<hr/>	2,666 86
Meter Water Charges, 1917		29,055 03
Water: Sales, 1918	\$237,048 09	
Maintenance	3,980 53	
Service assess- ments	1,040 27	
	<hr/>	242,068 89
Grade Crossings		36,800 00
Real Estate Liens		1,169 97
Temporary Loans		1,484,000 00
Departmental Deposits		21,193 21
Departmental accounts } (See Table.)		50,672 31
Commonwealth of Massachusetts:—		
Corporation Taxes:		
Business	\$40,087 73	
	<hr/>	
Carried forward	\$40,087 73	\$3,921,710 24 \$237,246 23

Brought forward . . .	\$40,037 73	\$3,921,710 24	\$237,246 23
Public Service . . .	10,283 99		
Bank . . .	4,734 94		
Street Railway, 1917 . . .	20,131 88		
1918 . . .	15,146 48		
		90,385 02	
Income Tax, 1917 . . .		7,980 00	
1918 . . .		68,628 00	
Vocational Schools . . .		8,181 67	
Soldiers' Benefits, 1917 . . .		30,461 43	
In lieu of taxes . . .		70 32	
County of Middlesex:			
Dog licenses . . .		2,168 85	
Courts, County . . .	\$70 50		
Police . . .	3,634 61		
		3,705 11	
Departmental penalties . . .		171 00	
Licenses and permits, (de- partmental) . . .		4,807 50	
Interest: On taxes . . .	\$12,063 75		
Assessments . . .	542 52		
Bank accounts:			
Treasurer . . .	9,971 73		
City Clerk . . .	8 81		
Real estate liens . . .	22 23		
Accrued on Tem- porary loans . . .	9 78		
Miscellaneous . . .	84		
		22,619 66	
Treasury Department:			
Cost on taxes and re- demptions . . .	\$6,159 53		
Costs on assessments . . .	100 15		
Certificates, Lien and re- demption . . .	253 00		
Collecting bank tax . . .	28 62		
		6,541 30	
Edison Electric Illuminat- ing Co., electrolysis . . .		500 00	
General expenses, refunds . . .		1,387 88	
Trust Funds Income:			
School, S. Newton, Cut- ler . . .	\$214 50		
Smith-Hughes . . .	1,048 24		
Library, S. Newton, Cut- ler . . .	42 88		
Hunt, Art . . .	95 00		
Hunt, Books . . .	495 29		
Pitman, Art . . .	171 32		
Pitman, Poetry . . .	42 82		
Wilder, Chil- dren's . . .	4 25		
Poor, Olive C. Cummings . . .	50 00		
		2,164 30	
Tellers' shorts and overs . . .		10 28	
		\$4,171,492 56	
Carried forward . . .		\$4,171,492 56	\$237,246 23

Brought forward . . .		\$4,171,492 56	\$237,246 23
Non-Revenue.			
Outlay appropriations, re-			
funds and offsets . . .	\$2,399 44		
Carnegie Corporation . . .	2,000 00		
Redemption of tax liens . .	2,522 59		
		<u>6,922 03</u>	
			<u>4,178,414 59</u>
			<u>\$4,415,660 82</u>

PAYMENTS.

Revenue.			
Advances, Jean M. Hutch-			
ins, acting agent . . .		\$3,000 00	
Taxes, 1917, refunds . . .	\$38 40		
1917, under Chap.			
49, Acts 1918, re-			
funds . . .	7 22		
1918, refunds . . .	261 28		
		<u>306 90</u>	
Street Sprinkling, 1917, re-			
funds . . .	\$130 25		
Street Sprinkling, 1918, re-			
funds . . .	48 70		
		<u>178 95</u>	
Moth Assessment, 1918 . .		75	
Water Charges:			
Previous year, refunds . .	\$26 83		
Current year, refunds . .	352 43		
		<u>379 26</u>	
Grade Crossings . . .		36,850 00	
Real estate liens . . .		2,413 29	
Temporary Loans . . .		1,385,000 00	
Commonwealth of Massachusetts:			
State Tax . . .	\$175,560 00		
Assessments . . .	150,663 63		
Bank Tax, non-resident,	2,863 34		
Metropolitan water as-			
sessments . . .	125,358 55		
Soldiers' exemptions . .	124 34		
		<u>454,569 86</u>	
County of Middlesex, coun-			
ty tax . . .		87,003 63	
General expenses . . .		1,692,690 39	
Interest: Temporary loans	\$48,543 91		
Funded debt . . .	66,412 50		
		<u>114,956 41</u>	
Reduction of Funded debt		251,500 00	
Trust Funds:			
Schools, S. Newton, Cut-			
ler . . .	\$104 09		
Smith-Hughes . . .	260 00		
		<u>\$364 09</u>	
Carried forward . . .	\$364 09	\$4,028,849 44	

Brought forward	\$364 09	\$4,028,849 44	
Library, S. Newton Cut- ler.	50 00		
Hunt, books	257 23		
Pitman, art	139 40		
Pitman, poetry	20 25		
	<hr/>	830 97	
Tellers' shorts and overs		73 25	
		<hr/>	\$4,029,753 66
Non-Revenue.			
Outlay appropriations		\$143,388 41	
Redemption of tax liens		2,522 59	
		<hr/>	\$145,911 00
			<hr/>
			\$4,175,664 66
Cash in office		\$1,235 90	
Deposits in banks		238,760 26	
		<hr/>	239,996 16
			<hr/>
			\$4,415,660 82

Revenue.			
General expenses	\$212,092 37		
Trust Funds (Public)	2,300 54		
Sundry persons	127 11		
	<hr/>	\$214,520 02	
Non-Revenue.			
Outlay appropriations		25,476 14	
		<hr/>	\$239,996 16
			<hr/>

BALANCES, DECEMBER 31, 1918.

Cash		\$239,996 16	
Cash, advances, Poor De- partment		4,101 00	
Taxes, 1916	\$1,416 92		
1917	2,734 33		
1918	365,013 39		
	<hr/>	369,164 64	
Excise		12 67	
Street Sprinkling, 1916	\$0 50		
1917	16 60		
1918	8,145 35		
	<hr/>	8,162 45	
Moth assessments, 1917	\$5 60		
1918	234 25		
	<hr/>	239 85	
Highway assessments, 1917	559 67		
1918	8,676 46		
	<hr/>	9,236 13	
Sidewalk assessments, 1917		904 70	
Sewer assessments, 1917		2,583 01	
Metered water charges		27,560 51	
Commonwealth of Massachusetts:—			
Benefits		80,261 53	
Income tax, 1918		5,777 52	
Grade Crossings		427 30	
		<hr/>	
Carried forward		\$748,427 47	

Brought forward . . .	\$364 09	\$4,028,849 44	
Library, S. Newton Cutler. . .	50 00		
Hunt, books . . .	257 23		
Pitman, art . . .	139 40		
Pitman, poetry . . .	20 25		
		830 97	
Tellers' shorts and overs . . .		73 25	
			\$4,029,753 66
Non-Revenue.			
Outlay appropriations . . .		\$143,388 41	
Redemption of tax liens . . .		2,522 59	
			\$145,911 00
			\$4,175,664 66
Cash in office . . .		\$1,235 90	
Deposits in banks . . .		238,760 26	
			239,996 16
			\$4,415,660 82
Revenue.			
General expenses . . .	\$212,092 37		
Trust Funds (Public) . . .	2,300 54		
Sundry persons . . .	127 11		
		\$214,520 02	
Non-Revenue.			
Outlay appropriations . . .		25,476 14	
			\$239,996 16

BALANCES, DECEMBER 31, 1918.

Cash		\$239,996 16	
Cash, advances, Poor Department		4,101 00	
Taxes, 1916	\$1,416 92		
1917	2,734 33		
1918	365,013 39		
		369,164 64	
Excise		12 67	
Street Sprinkling, 1916	\$0 50		
1917	16 60		
1918	8,145 35		
		8,162 45	
Moth assessments, 1917	\$5 60		
1918	234 25		
		239 85	
Highway assessments, 1917	559 67		
1918	8,676 46		
		9,236 13	
Sidewalk assessments, 1917		904 70	
Sewer assessments, 1917		2,583 01	
Metered water charges		27,560 51	
Commonwealth of Massachusetts:—			
Benefits		80,261 53	
Income tax, 1918		5,777 52	
Grade Crossings		427 30	
Carried forward		\$748,427 47	

Brought forward	\$748,427 47	
Real estate liens	1,219 53	
Interest (Reserved for amount due on 1918 loans)		5,269 50
Trust Funds, Income:—		
School:—		
S. Newton Cutler	511 29	
Smith-Hughes	788 24	
Library:—		
S. Newton Cutler	26 11	
Hunt, Art	314 29	
Hunt, Art (principal)	202 77	
Hunt, Books	279 34	
Pitman, Art	87 40	
Pitman, Poetry	29 84	
Wilder, Children's	11 26	
Poor. Olive C. Cum- mings	50 00	
		2,300 54
Sundry persons		127 11
Tellers' shorts and overs		10 28
Temporary Loans		609,000 00
Funded Debt		1,506,000 00
Net Funded Debt, Bal- ancing account	1,506,000 00	
Sale of land, Winter Hill Overlay and Abatement, 1916	\$1,416 92	
1917	2,734 33	
1918	22,006 30	
		26,157 55
Reserve Supplementary as- sessments:—		
1916	\$1,107 34	
1917	399 80	
1918	707 04	
		2,214 18
Reserve Fund Surplus Ov- erlays		5,564 52
Excess and Deficiency		73,027 18
Trust Funds, School	\$5,000 00	
Library	20,414 58	
Poor	1,102 84	
		26,517 42
Trust Funds, Investment:—		
School	\$5,000 00	
Library	20,414 58	
Poor	1,102 84	
		26,517 42
Outlay appropriations		25,476 14
	<u>\$2,282,164 42</u>	<u>\$2,282,164 42</u>

The assessors' warrant for the tax levy, assessed upon polls and property, April 1, 1918, including non-resident bank shares, amounted to . . . and the tax rate established was \$23.20 on each \$1,000 of valuation, as follows:

Real estate	\$72,478,400 00	
Personal estate	12,097,300 00	
Resident bank shares	63,580 00	
	<hr/>	
Total valuation	\$84,639,280 00	
At a rate of \$23.20		\$1,963,631 30
Polls, 24,291 at \$2		48,582 00
Non-resident bank shares to be paid to the State (valuation \$123,420.00) .		2,863 34
		<hr/>
		\$2,015,076 64
Street sprinkling		36,982 10
Suppression of moths		1,096 75
		<hr/>
		\$2,053,155 49
Additional Assessments:—		
Real estate, valuation \$13,500 at \$23.20 .	\$313 20	
Personal estate, valuation \$11,200 at \$23.20	259 84	
Polls, 67 at \$2	134 00	
	<hr/>	
		707 04
		<hr/>
Total commitments by assessors .		\$2,053,862 53

BONDS OUTSTANDING JANUARY 1, 1919, WITH INTEREST TO MATURITY.

	Bonds	Interest
Water Loan Bonds	\$6,000 00	\$320 00
Emergency Loan Bonds	20,000 00	2,125 00
Metropolitan Park Bonds	11,000 00	2,310 00
Bridge Loan Bonds	31,000 00	16,817 50
Sewer Loan Bonds	280,000 00	85,731 25
City Loan Bonds	490,000 00	86,027 50
Municipal Loan Bonds	39,000 00	5,175 00
Highway Loan Bonds	327,000 00	35,865 00
Public Buildings Loan Bonds	302,000 00	100,465 00
	<u>\$1,506,000 00</u>	<u>\$334,836 25</u>

MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1918.

	Principal	Interest	Total
Bonds, General City Debt	\$246,500 00	\$65,972 50	\$312,472 50
Bonds, Water	5,000 00	440 00	5,440 00
Temporary loans . . . . .	.....	48,543 91	48,543 91
Grade Crossings	10,780 00	1,574 20	12,354 20
On Account of Metropolitan District Debt:—			
Sewers	18,353 75	29,581 55	47,935 30
Park	3,624 31	12,100 24	15,724 55
Wellington Bridge	1,265 00	379 50	1,644 50
Charles River Basin	265 20	3,060 30	3,325 50
Alewife Brook	818 39	379 55	1,197 94
Water	16,198 07	79,975 44	96,173 51
	<u>\$302,804 72</u>	<u>\$242,007 19</u>	<u>\$544,811 91</u>
Somerville's Proportion for Debt Requirements:—			
In State tax	26,863 30	33,034 40	59,897 70
In county tax	3,687 48	3,396 36	7,083 84
	<u>\$333,355 50</u>	<u>\$278,437 95</u>	<u>\$611,793 45</u>

GRADE CROSSING DEBT (Carried by Commonwealth).

Decrees entered		\$120,097 10
Paid Commonwealth	\$105,708 86	
Deduct interest included in above	19,291 76	
		<u>86,417 10</u>
Due		<u>\$33,680 00</u>
Payable	Principal	Interest
Nov. 15, 1919	\$10,260 00	\$1,291 74
1920	8,280 00	891 80
1921	7,380 00	576 60
1922	4,380 00	294 40
1923	3,380 00	127 20
	<u>\$33,680 00</u>	<u>\$3,181 74</u>

TREASURY DEPARTMENT, 1918.

Appropriated in budget			\$17,050 00
Salaries:—			
Treasurer and collector	\$3,200 00		
Deputy collector	1,600 00		
Cashier	1,200 00		
Clerks	\$6,162 82		
Less service transfer	28 80		
		6,134 02	
Stationery and postage	2,101 69		
Books and printing	912 05		
Carriage hire	4 00		
Telephone	155 53		
Surety bonds	505 00		
Advertising and recording tax sales	593 12		
Sundries	121 11		
		<hr/>	
	\$16,526 52		
Balance	523 48		\$17,050 00
			<hr/> <hr/>

REPORT OF THE SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

School Committee Rooms, January 3, 1919.

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that it be incorporated in the reports of the City Officers; and that 1,000 copies be printed separately.

CHARLES S. CLARK,

Secretary of School Board.

School Committee, 1918.

GUY E. HEALEY Chairman
 HERBERT CHOLERTON Vice-Chairman

Members.**EX-OFFICIIS.**

Term expires
January

CHARLES W. ELDRIDGE, Mayor, 47 Highland road 1919
 JOHN M. WEBSTER, President Board of Aldermen, 76 Boston street 1919

WARD ONE.

DR. WINNIFRED P. DAVIS, 125 Pearl street 1919
 JAMES J. RUDD, 46-A Franklin street 1920

WARD TWO.

CHRISTOPHER J. MULDOON, 88 Concord avenue 1919
 DANIEL H. BRADLEY, 19 Concord avenue 1920

WARD THREE.

OSCAR W. CODDING, 21 Pleasant avenue 1919
 ALFRED L. WEST, 69 Avon street 1920

WARD FOUR.

FRANK H. HOLMES, 22 Walter street 1919
 *ARTHUR N. RICHARDSON, 68 Bonair street 1920

WARD FIVE.

†MRS. JULIA R. ALDRICH, 262 School street 1919
 MRS. BLANCHE E. HERBERT, 56 Dartmouth street 1919
 HARRY M. STOODLEY, 283 Highland avenue 1920

WARD SIX.

GEORGE E. WARDROBE, 31 Rogers avenue 1919
 *GUY E. HEALEY, 38 Cambria street 1920

WARD SEVEN.

HERBERT CHOLERTON, 94 College avenue 1919
 FRANK E. PORTER, 43 Ossipee road 1920

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

Assistant Superintendent of Schools.

JOSEPH A. EWART.

11 Bigelow street.

Office hour: 3 o'clock on school days.

Superintendent's office force:—

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

H. Madeline Kodad, 1067 Broadway.

Board Meetings.

January 28.	April 29.	September 30.	December 27.
February 25.	May 27.	October 28.	January 3, 1919.
March 25.	June 24.	November 25.	

8:15 o'clock.

* Resigned October 21.

† Resigned July 15.

Standing Committees, 1918.

Note. — The member first named is chairman.

District I. — Dr. Davis, Rudd, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Muldoon, Bradley, Coddington.

KNAPP, PERRY, BAXTER.

District III. — Coddington, West, Dr. Davis.

POPE, BELL, CUMMINGS.

District IV. — Holmes, Richardson, Mrs. Aldrich.

EDGERLY, GLINES.

District V. — Mrs. Aldrich, Stoodley, Richardson.

FORSTER, BINGHAM.

District VI. — Wardrobe, Healey, Stoodley.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII. — Cholerton, Porter, Healey.

HIGHLAND, HODGKINS, CUTLER, LINCOLN, LOWE.

High School. — Bradley, Dr. Davis, West, Holmes, Stoodley, Healey, Cholerton.

Finance. — Stoodley, Rudd, Bradley, Coddington, Richardson, Healey, Porter, Eldridge, Webster.

Text-Books and Courses of Study. — Muldoon, Dr. Davis, West, Mrs. Aldrich, Stoodley, Healey, Cholerton.

Industrial Education. — Holmes, Rudd, Muldoon, West, Richardson, Wardrobe, Porter.

School Accommodations. — Porter, Rudd, Bradley, Coddington, Holmes, Mrs. Aldrich, Wardrobe, Eldridge, Webster.

Teachers. — Cholerton, Dr. Davis, Muldoon, Bradley, Healey.

Playgrounds and School Hygiene. — Wardrobe, Dr. Davis, Holmes, Richardson, Mrs. Aldrich.

Rules and Regulations. — Coddington, Muldoon, Porter.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Somerville:—

In accordance with your rules and regulations, I present the following report of the conditions of the public schools for the year ended December 31, 1918. The usual statistical tables showing the facts concerning enrollment and attendance of pupils and the cost of maintenance of the schools are supplied herewith.

Although forty-six annual reports of the schools of this city have been written, it is doubtful if the record of any other year presents such a variety and such a number of extraordinary acts as does the account for the year just closed. While the World War created for all communities exceptional conditions, and our city, like all others, shared in them, yet other happenings were sufficiently unusual to make this year a marked one in the history of our schools. For the sake of a record, it may be well to note briefly each of these uncommon occurrences.

First of all to be mentioned is the loss of school time through the enforced closing of the schools. Early in January, because of the shortage of coal, it was necessary to close a number of schools for an indefinite period. This amounted to ten weeks in the case of some, while in the case of others, notably the High School, the closing was for only a short time. For the sake of saving coal, the sessions of the Evening Schools were omitted during the winter months, but they were resumed later in the year when the coal shortage was somewhat relieved. Again in September it became necessary to close all the schools on account of the prevalence of the influenza. So menacing was the progress of this disease that all the schools of the city were closed for four weeks. Once more, as the old year draws to an end, it has been necessary to close the schools one week for the same reason. Thus, in one year, enforced closing of the schools amounted in all to more than two months.

Notwithstanding these losses, the Committee was glad to give two school holidays in November to celebrate the signing of an armistice whereby the fighting in the World War came to an end.

A second incident of unusual significance was the opening, in September, of the junior high school on Vinal Avenue. In this school were assembled the upper grade pupils of the Morse, Carr, Knapp and Bell schools. This event completed the provision of junior high schools for the whole city and

changed, thereby, the character of the school organization. Since that event all of the intermediate classes have been assembled in junior high schools. The buildings heretofore known as Grammar Schools now contain classes of the first six grades.

At the same time another important change was accomplished. For the first time two classes from the elementary schools were promoted to the high school simultaneously. The eighth grade was promoted to the high school in company with the ninth grade. This act was in pursuance of a policy adopted by the School Board in 1910, to reduce the course of instruction below the high school from nine to eight years. By this means that policy was carried into effect and the total number of years in the school course was made twelve instead of thirteen. While there are now in the schools thirteen distinct classes, two of them are of identical grade, namely, the promoted eighth and ninth grades. When these classes have been graduated from the High School there will then be only twelve classes, corresponding to the twelve grades of the schools.

Other unusual circumstances during the year were associated directly with the prosecution of the War. It was evident in the first year of the War that the youth of the country could lend valuable assistance to the home work of civilians in support of the war policy of the Government. This year, beginning early in the year, this help of the children was systematically organized in several important ways.

Early in the year Junior Red Cross auxiliaries were organized in all of the schools of the city with every pupil a member. Thus our city had the distinction of having 100 % membership in this organization. As an account of the work of these auxiliaries will be given elsewhere in this report, it is sufficient here to say that the pupils entered heartily into the undertaking and rendered valuable service in making articles and supplies that were needed for the use of soldiers. In addition to this aid, they themselves were benefited by the growth in patriotism and efficiency which this opportunity gave them.

The War Savings Stamp system was started early in the year. This method of saving superseded, for the time being, the school savings bank system which had been in very successful operation in our schools for a number of years. In a report printed at the end of the school year in June, giving the War Savings Stamp statistics of the public schools of the Commonwealth of Massachusetts, Somerville had 51 % of all of its pupils holding stamps, with a per capita holding of \$3.28. This record puts our city at the head of the larger cities of the State, both in the percentage of pupils holding stamps and in the average amount for each individual.

Again this year there was a call for high school boys to work upon the farms. The Massachusetts Committee on Public Safety, cooperating with the United States Boys' Working Reserve, enrolled the boys of the High School for work during the growing season. This year arrangements were made for placing our high school boys in a camp in Sunderland, Massachusetts. This camp was under the supervision of two high school masters, Everett W. Tuttle and Guy C. Blodgett, and in it were enrolled fifty-one pupils. The boys stayed in the camp throughout the season and rendered service that was highly appreciated by the farmers of the neighborhood. In every respect the camp was a model of good behavior and efficiency. In addition to the boys in the camp thirty-eight others were placed upon nearby farms under the general management of Stephen H. Mahoney. In these two ways, therefore, high school boys served their country as members of the United States Boys' Working Reserve.

But the spirit of service was not confined to the boys. Early in the year several of the women teachers of the High School, believing that girls could be profitably engaged upon farms, undertook to organize and place a group of high school girls in farm work. After many difficulties had been overcome, early in the summer season a camp was opened in Bolton in the Grange Hall of the Mechanics and Farmers Association where twenty-five high school girls lived under the supervision of Miss Elizabeth H. Hunt, a member of the High School faculty. These girls worked upon the neighboring farms from that time until October 12. As an evidence of the value of their services can be cited the fact that the farmers of that vicinity are most anxious to have them return next year. While these girls have not had the patronage and support of the State and Nation which was given to the boys they have deserved none the less equal praise for the work which they did. So far as I know they constituted the first group of high school girls to be organized and maintained through the summer for work on farms.

Another distinguishing feature of the year was the improvement of the physical training work in the High School. The plan proposed at the end of the last year was put into operation early this year. The use of the State Armory daily was secured for boys and of the Y. M. C. A. gymnasium for girls. An additional instructor in physical training was provided for the girls of the High School. Daily and vigorous setting up exercises and a weekly drill in company formation and tactics were prescribed for all pupils. The work has been successfully conducted and has had gratifying results.

Two new buildings were completed during the year:—an addition of twelve rooms to the Bell schoolhouse was finished and occupied in September; a building 58 feet by 62 feet has

just been completed on Glen street adjoining the Davis school-house. This will be used for an automobile shop. It is made of brick and concrete, is fire-proof, and has been designed especially for the work for which it is to be used.

In enrollment of pupils there has been slight change since last year. The average membership in December this year is 12,807 as against 12,989 last year. The present membership is 13,074. There are employed now 418 teachers as against 423 employed in 1917.

Accommodations.

In order that the relation of schoolhouse accommodations to the present and future needs of the schools may be clearly seen it is necessary that the situation as a whole be surveyed and that not only what is now the condition in various parts of the system be noted but also the imperative needs of the near future growing out of the natural development of present undertakings be understood.

Concerning the High School it is to be said that the sufficiency of room for the work of the school which resulted last year from the operation of three junior high schools has been offset this year by the necessity of housing in that school one of the two freshman classes. The effect of this act is to restore to the High School the four-class organization with a resultant increase in the membership of the school. Next year the present senior class of the junior high school will join this class in the High School making a sophomore class of double size. This double class will continue through the next three years of the senior High School, each year being associated with two other classes. Therefore until this double freshman class is graduated from the High School in 1922 there will be no material shrinkage in the present size of that school. In September, 1922, the High School will again return to the basis of a three-class organization, and the school system will consist of twelve year groups or classes, whereas until then it will have thirteen. The membership of the school is now 1,749, a number too large to permit the best disposition of the undertakings of the school, but still not large enough to bring on the worst features of overcrowding. It seems inevitable that this condition must be borne until 1922 and probable that it will not assume before that time the serious state of overcrowding that was the cause of so much complaint in 1915 and 1916.

Junior High Schools.

The Northern occupies all of the Folsom building including attic and basement and all but four rooms in the Forster, including the ward room. This school is overcrowded and is conducted at a disadvantage because of that fact. The

use of the four remaining classrooms in the Forster building would do no more than give it room better to conduct its necessary work. There are 624 pupils now in this school.

The Eastern Junior High School occupies the Southworth building and eight of the twelve rooms of the Prescott building, an increase of three over last year. The school is filled by its present undertakings. Not an additional class can be organized without taking another room in the Prescott building away from the elementary classes. There are 479 pupils in this school.

The Western Junior High School now utilizes both the new building (not named) on Holland street and the Hodgkins building several rods away. In September seven rooms in the Hodgkins School which last year were used for elementary classes were taken by the Junior High School. Both buildings are fully occupied, the new building being very much overcrowded. No additional class can be started here with a room to itself. There are 897 pupils in this school.

The Southern Junior High School is housed in the Bell School with its twelve-room addition and occupies the whole of the plant with the exception of the ward room. There are 690 pupils in this school.

Elementary Schools.

With the exceptions to be noted the elementary schools are much better off for room than at any other time in recent years. Sufficiency of room has made possible decreasing the size of many classes, thereby producing better conditions for pupils and teachers. This is notably true of the schools west of Central street. There are rooms enough in this section for all the elementary school pupils, although to use them fully it will not be possible in every instance to send children to the school of their preference.

From the Forster School east to Charlestown the condition is different. The Forster (elementary), the Edgerly, Glines, Hanscom, and Prescott (elementary) schools are full, practically to the limit. It is now a matter of careful consideration to place additional pupils anywhere in these schools. This is a serious condition, one requiring early study and attention. The elementary schools not included in the foregoing statements have room enough, one, the Knapp, at present having unused rooms.

Vocational Schools.

A new building containing one large room for an automobile shop has just been added to the Boys' Vocational School. With the readjustments which will follow occupying this building the school will be well equipped to do its work.

Vocational School for Girls. The decrease in enrollment in this school as a result of war conditions makes unnecessary consideration at this time of any increase in the size of the plant. The building is large enough for the present enrollment of the school.

This survey affords a background for several generalizations. For years the School Committee has been urging the need of more accommodations. Two years ago there was severe complaint by citizens concerning the overcrowded condition of the High School, and many of the elementary schools in the central and western parts of the city were cramped for room. The policy of establishing junior high schools was adopted in part for the purpose of relieving the situation by building in central locations in the four sections of the city. Measurable relief has followed the adoption of the plan. Its failure is only in so far as building operations in connection with it have not been extensive enough. In my annual report in 1916 I stated the conviction that fifty more classrooms were then needed. Since then thirty have been provided. The other twenty are needed now.

Before leaving this subject I cannot forbear expressing the hope that the city will be able in the very near future to complete the new Western Junior High School building according to its complete plans. By this means we should have one new fully adequate junior high school building with the various provisions which a modern junior high school ought to possess. Here is an exceptional opportunity as we have the land and a workable building plan. When this is done the Hodgkins School building could be released for other purposes, perhaps as a substitute for the Highland School building.

Curriculum.

By reason of the elimination of the last or ninth grade of the elementary course which was effected last June the curriculum of the schools is now composed of twelve grades divided as follows: Elementary, six grades; Junior High, three grades; and High School, three grades. The eighth grade class last year was promoted to the same grade as the ninth grade, that is, to the grade equivalent to the first grade of a four-year high school. Under the junior high school system this grade is the last one in the Junior High School. To state the matter in another way the eighth grade pupils entered the High School at the same time as the ninth, though both groups under our new organization belong this year in the junior high schools as a senior class. However, inasmuch as the junior high schools had not room enough to hold both classes in addition to the others the ninth grade promotees were sent to the High School where they could be accommodated. In

this way there are now thirteen classes although there are but twelve grades of instruction. The present curriculum, which embraces all of the subjects of the former elementary and high school courses, is divided into the following groups: Elementary essentials, grades 1 to 8; High School studies prescribed, 9 to 12; Electives, grades 7 to 12. In grades 1 to 8 all the essential subject matter of the former elementary course is provided for. During the present year, the senior class in each junior high school will have a special course in elementary subjects which formerly constituted the work of the ninth year. The seventh and eighth grade classes are carrying on the elementary essentials from the points reached at the time of promotion in June, and will cover, by the end of the year, the full requirements in these subjects.

In the administration of the new organization, the objectives will be greater efficiency of instruction in all subjects and greater development of the pupil's power to think right and to act right under all conditions.

Expenditures.

The expenditures for teachers' salaries this year was \$408,685.58, \$28,294.98 more than last year. The increased expenditure for teachers' salaries includes first,—the usual increments provided for by the salary schedule, and second, the specific increases provided during the year. The latter, representing as it does about a six per cent. change, is small in comparison with the increased living costs during the same period of time.

The expenditure on account of contingent expenses was \$44,511.65, \$1,856.79 more than last year. The expenditure for text books and supplies this year is but about \$700 greater than last year. The increased cost of all material would have made this excess much larger this year if the enforced closing of schools for several weeks had not reduced the demands. The balance was due to increases in the office force and to increases in some of the salaries. As a detailed statement of cost will be found in the Appendix I will not enlarge upon this item here.

Teachers.

During the year eleven teachers were released for war work and fifty-three teachers have been elected to vacancies in the schools. The securing of new teachers has been much more difficult this year than in former years. To be eligible for a position in the Somerville schools a teacher must have had professional or college training or suitable experience in the line of work which he is to teach. The sources of

supply of teachers are normal schools, colleges, other schools, or ex-teachers from homes or business. It has been our practice to require of graduates of normal schools or colleges at least one year of experience. It has also been our practice to give to our own girls who have been graduated from a normal school an opportunity to serve one year as apprentice-teachers, and by that means to make them eligible for election as permanent teachers. This has been heretofore a reliable means for supplying new teachers for the elementary schools. Last year nine cadets were employed, most of whom have now been elected to permanent positions here. This year only two normal school graduates offered themselves for service as cadets. The number of applicants for positions coming from the other sources of supply has been very small as compared with previous years. Those who do apply for positions here, moreover, are receiving pay which makes a change to Somerville less attractive than has been the case heretofore. A scarcity of teachers is thus clearly revealed. It is not merely local; it is country-wide.

The tendency of the times is apparently to divert ambitious youth of both sexes from teaching as a life work. The cause of this decline is the poor inducements which teaching offers in salaries as compared with the rewards which can be obtained in other fields of effort. This condition is serious with the supply of teachers diminishing at the source while the demand for teachers is increasing by the expansion of the educational undertakings of society. It is time for society to "take stock" in this matter. When this is being done certain truisms will come to view:—

1. Society cannot endure without schooling its children.
2. To school its children, society must pay its teachers.
3. Society does not compel youth to enter the profession of teaching, it relies upon their doing so voluntarily. "Must" is a word which does not apply to a youth in reference to becoming a teacher.

4. Conditions 1 and 2 are imperative, inevitable, continuous as society itself; condition 3 is voluntary. A fundamental, vital need of society, therefore, is dependent on the voluntary choice of individuals who may or may not decide to meet that need.

5. The choice of youth deciding whether or not to become teachers is the crucial point in determining the teacher supply of the future. If the youth decide that it does not pay to become teachers, what about meeting those fundamental, vital needs of society? Will society conscript teachers, as it has drafted soldiers? Can it make teachers as quickly and as well by conscription as it made soldiers?

6. The last truism is this: teachers must be paid in proportion to the importance of their work. When that time comes and not till then will justice be done and society be safe from a threatened collapse of its educational undertakings.

In view of these considerations it is gratifying to note that some improvement of the salary schedule of our teachers has been effected during this year. Fifty dollars was added to the pay of teachers in the elementary schools and an agreement has been reached to add fifty dollars more at the beginning of 1919. Fifty dollars also has been added to the pay of all women teachers in the High School. These acts constitute steps in the right direction and have given encouragement to the teachers. It cannot be supposed, however, that the salaries of our teachers have yet reached the level which satisfies either their proper ambition or their economic necessity.

War Influences Upon School Programmes.

During the year just closed the influence of the War has been felt in the schoolrooms in various ways. Some of these have been direct and obvious as in the cases of the Junior Red Cross, War Savings Stamps, Food Conservation, Liberty Loans, and other patriotic undertakings of a national scope. Other influences have been potent, although less connected with proposals for immediate action. Of this nature have been the instruction upon current happenings of the War, patriotic observances on special occasions, instruction intended to promote patriotism, etc. In all, these activities have made a rather large draft upon the time of the schools. This effect is more noticeable because of its conjunction with the considerable loss of time through enforced closing of schools. Yet, I think, on the whole, it will have to be conceded that the performance of these war-time duties has had a value to the pupils great enough to offset the loss in routine work. Pupils have been made conscious of the fact that they are a consequential part of the general patriotic movement. Having been called upon by adults to help in the work for their country, they have realized, in a more personal way, their obligations to their country, and the value of what their country means to them. In this way, altruism and patriotic feeling have been promoted among the youth.

The problem now is to continue this patriotic impulse so that the youth may be trained in intelligent appreciation of the worth of democracy and of their obligations to sustain and protect it. A very manifest lesson of the War is that the preservation of our national ideals will be, in a large measure, dependent upon the educational undertakings of the country. The elementary and intermediate schools must so train the

youth that they will have the qualities of mind and heart upon which a democracy may safely depend. It will be the business of the schools to search diligently for ways and means of providing such instruction.

The Board of Aldermen, having transferred to the Somerville Recreation and Playground Commission, the appropriation for Summer Playgrounds, the School Committee was relieved of the responsibility of administering this work this year. But as school children were to be the chief beneficiaries of the summer programme of the Commission, it was natural and desirable that cordial co-operation should be established by the Commission with the School Committee. By means of this common interest, the garden supervisor employed by the Commission, Mr. William B. Moore, was permitted to visit the schools in the early Spring to enlist the interest of children in home and school gardens. In certain schools, notably the Cutler, Edgerly, and Bingham, garden classes were formed, and in others smaller groups worked on the school gardens. Areas on public parks in all parts of the city were given again for these gardens, and some vacant lots were yielded by their owners for the same use. A favorable season aided the young gardeners to produce substantial crops to the advantage of the home table and to the pocket books of the children.

From close personal observation of this undertaking, I am convinced of the wisdom of promoting, in a careful way, the school and home garden movement in this city. All that has been accomplished in this work by the efforts of past years should be held, and additional measures taken. Instruction in school would greatly help pupils who want to have gardens next year. Such instruction could be furnished by a garden teacher who would visit each garden class periodically during the school months. By the time the planting season had arrived, the pupils would be well prepared to begin work intelligently and with encouraging prospects of success.

Last year I made four general recommendations in closing my annual report. Two of these have been carried into effect this year. The other two urged additions to the West Somerville Junior High School building and to the East Somerville Junior High School building. These have not been acted upon at all. This year I wish to close this report with the following recommendations:

First, that the subject of providing needed additions to our school accommodations be carefully studied and a plan for procedure to meet those needs be formulated;

Second, that, after this plan has been agreed upon, an appropriation be sought to provide additional construction during 1919;

Third, that favorable attention be given to further increases of teachers' salaries as money for that purpose may be made available;

Fourth, that emphasis be placed upon home and school garden work by the employment of a garden instructor for ten months of the school year.

I have again to express grateful acknowledgment to all with whom I have been associated in the school work for encouragement and assistance. To the members of the School Committee, personally and collectively, and to His Honor, Mayor Eldridge, to the principals and teachers of the schools, I am indebted for unfailing consideration and courtesy. To you and to them I now express my sincere appreciation.

Respectfully submitted,

CHARLES S. CLARK,

January 3, 1919.

Superintendent of Schools.

REPORT ON HIGH SCHOOL.

Mr. Charles S. Clark,

Superintendent of Schools,

Somerville, Mass.

Dear Mr. Clark:

War conditions and the influenza epidemic very seriously affected the regular work of the school during the past year; yet, notwithstanding these drawbacks, progress has been made in certain respects.

Physical Training.

The realization that care of the body, correct standing and walking, and proper exercise are a valuable and necessary part of the education of our youth has resulted in the development of a general plan for physical training. For several years a setting-up drill for a few minutes each day has resulted in benefit and has met with considerable favor among pupils and teachers.

This year a further step has been taken. The entire school has been organized into companies and has marched, each company once a week, — the boys to the State Armory and the girls to the Y. M. C. A., where marching tactics and exercises for forty-five minutes have been enthusiastically practiced. Officers, selected by competition and examination, attained a high degree of leadership and much rivalry and healthy com-

petition has resulted. A field band consisting of drums, fifes, and brass instruments has been formed and has added appreciably to the enjoyment and value of the undertaking. Although guns and uniforms were not made a part of the plan, yet enough of the military has been incorporated to make the work interesting and to insure a strong, permanent organization. The plan is new but has taken a strong foothold in the school and has made a very favorable impression.

Japanese Exhibit.

Last spring the school was asked to contribute an exhibit to be sent with those of other schools to Japan. This exhibit was under the direction of Columbia University. Somerville High School prepared an exhibit of about twenty volumes. These volumes contained graded work of the various departments of the school, sample copies of notebooks, graded sheets of the courses in mechanical and freehand drawing, photographs (about one hundred) of the school, class rooms, and various forms of school activities, and a description (with forms and explanations) of the organization and administration of the school. The exhibit was beautifully bound and made an interesting and instructive portrayal of the school work. While no recognition has yet been received from Japan, we are justly proud of the following letter of commendation received from Columbia University.

SUPERINTENDENT C. S. CLARK,
Somerville, Mass.

My Dear Sir:—About a fortnight ago I received from you for Dr. Norisugi, the Japanese Inspector of Education visiting in this country, the volumes which you had prepared at my suggestion for an exhibit of the work of the American Schools. The materials which you submitted for Somerville Schools were so admirable in conception, execution, and in detail that I desire to express my very great personal appreciation to you and to those who participated in this work. It was quite the most excellent exhibit submitted by any school and made a deep impression upon the Japanese educators who have seen it. While there may be some delay in acknowledgment from them owing to their absence from the country, knowing their punctilious courtesy, I am sure you will receive acknowledgment of their appreciation in time.

Again thanking you for this cooperation, I am

Sincerely yours,

(Signed) PAUL MONROE,

Director.

School Library.

The plan of our school library is a unique one, in this section at least, and is deserving of favorable comment at this time. A trained librarian is in charge who, by cooperation with teachers and pupils, has made the library a very valuable department of the school. Incentive for good reading and an interest in good books, along with the teaching of independent thought and investigation, have materially grown in the school.

This librarian is under a part time arrangement with the public library. During the school session and for an hour afterwards she is at the school; the rest of the day she is in charge of the Intermediate department at the public library, working with high school students there. Her salary is paid half by the school department and half by the public library, and her time, during the school vacations is spent at the public library excepting one month in the summer. This part time schedule makes it easier for the public library to keep in touch with the school work, to know more definitely what the student wants, to know what to be prepared for when a whole class is assigned the same problem, and enables the public library to supplement more easily the work of the school. It keeps the high school librarian, and through her the teachers, in touch with the resources of the public library and with the new books, and it develops close cooperation between the two libraries.

A brief report of the librarian follows:—

“The high school library itself comprises nearly 1,800 volumes, about 150 volumes being added each year from the school fund. The public library is most generous, not only in lending books, but in purchasing them for high school use, to be kept in the high school library indefinitely. \$150 was so spent for books last year. The books were largely war titles, and books of general interest; the reference books being purchased by the school department. Through a system of interchange, the high school may borrow books for a short period, to be used by teachers and pupils. For example, a class is taking up the study of essays. Enough copies of essays are borrowed to supplement those already in the library so that each pupil has an opportunity to read several by various authors. Another group is debating on government ownership of railroads, and again the public library is called on to supplement the material on hand.

“Magazines play an important part in the work of the school. Twenty different ones are taken including those dealing with scientific subjects, current events, civics, history, and literature. These, especially *Travel*, *National Geographic*, *Bookman*, etc., bring a touch of culture into the home where there often would not be much; keep the pupils in touch with

the events of the times, and broaden their point of view. These magazines are kept where they are easily available, and there are always a great many students looking at them.

"A great deal of time and attention is given to the selection of books for pupils to read. A very large and important part of the librarian's time is spent in aiding students to select books and in discussing books with them. Classes are brought into the library so that the pupils may have the opportunity to "browse" and form an appreciation for the best in books. Attractive editions of standard books—such as the edition of *Midsummer Night's Dream*, illustrated by Rackham; *Ivanhoe*, illustrated by Greiffenhagen; *Treasure Island* and *Kidnapped*, with their Wyeth pictures; and many others are there. Books may be taken out to be read at home, and are read, not only by the borrower but by the whole family.

"Classes are also held there to instruct pupils in the use of books—to help them to be able to find the material they want without waste of time, to show them how to use indexes, tables of contents, bibliographies, the use of dictionaries and encyclopaedias, etc., and the periodicals with the periodical index. Instructions are also given in the arrangement and use of a library, so that they may avail themselves of the resources of their public library.

"The library aims to be the workshop of the entire school, to have material to aid every department. In order to show something of the field covered by the library, a few of the questions asked (in less than ten minutes) of the librarian are given below. These questions were not to be answered by the librarian, of course, but the pupil had to be shown where to find the material.

1. I want something that compares the lives of Johnson and Boswell.
2. Will this book make a good oral theme?
3. I want a history of the department stores of Boston, especially Filene's.
4. What can I find about the governments of Europe?
5. Will you give me a definition of education and a history of its development?
6. Where are the books on "gearing"?
7. I want a book that compares the humor of Washington Irving with that of Mark Twain.
8. Please find me a picture of Lincoln's hand.
9. How are buttons made?
10. In what magazine shall I find the best article on The League of Nations?

"The number of students using the library averages between 150 and 175 a day; and the number of teachers, ten to twelve. About fifty books are taken out every night after

school, some to be read simply for the pleasure of reading. The present room is much too small to meet the needs of the school, and will have to be enlarged before another year, especially if the work continues to grow as it has been growing."

War History Course.

The happy termination of the war has given us appreciable relief from the many demands and interruptions of war work. In order, however, that the pupils might not forget too soon the terrible experience through which the world has been passing and might thoroughly understand the lessons of the great war, a course in war history has been established for the entire school. The history and civics teachers have entered enthusiastically into the plan. The aims and outline of the course are given below:

THE COURSE IN WAR HISTORY.

Somerville High School.

1918—1919.

Aims of the Course:—

- To give pupils intelligence as to
 - the causes of the war,
 - the characteristics of the belligerent nations,
 - the stakes of each nation in the struggle.
- To show that the participation of the United States was inevitable owing to
 - her interest in the fundamental principles involved,
 - her share in the common danger from German aggression.
- To develop in the pupils an appreciation of the cost in blood and treasure at which their liberties have been secured.
- To pave the way for intelligent reading of the newspapers with reference to the problems of the peace settlement.

Method of the Course:—

Informal talks supplemented by outside reading.

Outline of subjects (abbreviated from the Teachers' Leaflet No. 4, United States Bureau of Education).

1. Germany.
2. Austria Hungary.
3. The Balkans.
4. France.
5. Great Britain.
6. Russia.
7. The allies versus Pan-Germany.
8. Outbreak of the war and its conduct through the first battle of the Marne.
9. Conduct of the war on land and sea and in the air to April, 1917.
10. Evidences of German enmity to the United States, and Wilson's War message.
11. American mobilization of the army, navy, aviation and finance.
12. Organization of shipping of food supplies, transportation, care of soldiers, and school work for war purposes.
13. The conduct of the war from April, 1917, to March 21, 1918.
14. The conduct of the war from March 21, 1918, to the end.
15. Terms of peace and problems of reconstruction.

Letters from an English Teacher.

Several of our boys will have a chance to establish correspondence with school children in England as a part of the big plan of closer relationship and better understanding between the people of the two countries which is one of the outgrowths of the war.

In December I received a letter from Mr. C. Lowe, headmaster of the Constitution Hill Boys' Common School in Wellington, Shropshire, England, containing fourteen letters from pupils of his school which were being given to boys of the Somerville High School to answer.

The letter from Mr. Lowe, as well as those from the boys, was a beautiful specimen of handwriting.

Mr. Lowe's letter said:—

Wellington,
Shropshire,
England,
14th Dec., 1918.

To the Headmaster:—

Dear Sir:—The boys of the above school are most anxious to set up correspondence with some of the boys of a U. S. A. school, therefore I am enclosing a few letters written by some of my senior boys in the hope that you will kindly pass them on to some of your scholars who will reply.

The people of our country wish all here to realize the relationship which exists between the people of U. S. and those of Gt. Britain.

To this end we set apart Thurs. 28th Nov. last as a special "Thanksgiving Day." We taught the meaning of the "American Thanksgiving Day," showed the need for English speaking peoples to hold together, and pointed out the splendid lead which U. S. had made towards improving world conditions.

We hoisted the "Stars and Stripes" on our School flagstaff, and paintings were made of it. American airmen visited the School and U. S. aeroplanes gave us an exhibition of flying "stunts."

And now our bigger boys wish to do "Their bit" towards strengthening the bond of union by reaching out the hand of friendship to some of their school-cousins across the Atlantic.

They are very enthusiastic, so please do your best to make the idea "go" and I believe it will be a benefit both to your boys and ours.

I am, Dear Sir:

Yours faithfully,

C. LOWE,
Headmaster.

P. S.—I know what the Americans have done in France—have fought there myself, been wounded and am now discharged and back at my school once more. This is one reason for my interest in this matter.

C. L.

We are grateful that the Somerville High School was selected to participate in this form of international fellowship and trust that the custom will continue.

Patriotic Activities.

The war, though terrible in itself, furnished a wonderful opportunity for cementing the civic and national pride of pupils and teachers. Every phase of war work in which we could take part was entered into enthusiastically. The report of the High School Patriotic Association published elsewhere reflects in a striking way the value of cooperation and singleness of purpose.

The school united with the whole world in rejoicing over the signing of the armistice and the prospect of peace, yet we cannot fail to appreciate the wonderful experiences of the past year and the great gain which has resulted from a year of united effort and patriotic inspiration.

JOHN A. AVERY,

Headmaster of High School.

January 1, 1919.

REPORT ON JUNIOR HIGH SCHOOLS.

Mr. Charles S. Clark,
Superintendent of Schools,
Somerville, Mass.

Dear Sir:—

Until 1914 the schools of Somerville were organized under the traditional form of grammar schools of nine years and a high school of four years. Today we have an elementary course of six years, a junior high school course of three years and a high school course of three years. In 1914 as building construction had fallen far behind school demands, there was a resultant congestion in the high school and in almost every other school of the city. While there are still certain pressing needs for further school accommodations, there has been secured already a large measure of relief in the matter of overcrowding. Our school system now includes four junior high schools with a membership of nearly three thousand children. This report will discuss the steps taken in effecting these changes.

While the junior high school varies greatly in its meanings and applications in different localities, to us it means a distinct unit in the school system in which are grouped the

pupils of the last two years of the grammar school and the first year of the high school, who, through the variation of the traditional course of study by the earlier introduction of certain subjects of the high school and a broadening of the forms of manual activity, are given opportunities for self-discovery under the instruction of teachers qualified by training and interest to specialize in a scheme of departmental teaching. Development of a sense of self-responsibility in the matter of choice of course and in the question of school conduct, together with training in methods of study, combine to make the passage from the elementary school through the junior high school to the high school both gradual and easy.

The junior high school movement had its beginning in Somerville with the decision of the School Committee on June 15, 1914, to set up a new type of school by re-organizing the upper grades of one of the grammar schools, namely, the Forster School at Winter Hill, into what was to be called the Forster Intermediate School. Sewing was continued and cooking was introduced for the girls, while woodworking was broadened and a printing shop was opened for the boys. To some extent these manual subjects were required of all boys and girls, yet they might be chosen as electives also for specially advanced work. The success of this school was so marked that the School Committee at a meeting held April 3, 1916, determined upon a gradual extension of the plan to cover the entire city.

In September, 1916, the Winter Hill Junior High School was formed by assembling in the Forster building the eighth and ninth grade pupils of the Glines, Bingham, and Forster schools, and the June graduates of those schools, who would otherwise have entered the Freshman class of the High School. Transfers of elementary pupils from the Forster to the Bingham and Glines were made in such numbers as would give space for the new Junior High School organization.

At the same time the East Somerville Junior High School was established in the Prescott elementary building and an adjoining nine-room building just being completed. Pupils to comprise this school were drawn from the Prescott, Edgerly, and Pope schools.

Cotemporaneous with the establishment of these two schools the School Committee asked the Board of Aldermen to take steps at once to provide in West Somerville a new building to be ready in September, 1917, and an addition to the Bell School on Vinal avenue to be ready in September, 1918.

In September, 1917, the first unit of a three-unit junior high school building was opened on Holland street, West Somerville. It included nine class-rooms, a typewriting room, a science room, besides rooms for cooking, sewing, carpentry, and metal working. This school affected the Brown, Highland,

Hodgkins, and Cutler schools, in the same manner as at East Somerville and Winter Hill. As this new building was not large enough to provide for all the pupils, half the Hodgkins building nearby was taken also for this purpose and the elementary pupils were distributed in near-by schools.

In September, 1918, the completion of an addition to the Bell School on Vinal avenue, consisting of nine class-rooms, a typewriting room, and shops for carpentry and metal working, made possible the establishment of the fourth and last junior high school. The entire Bell building was taken for the purpose and all elementary pupils were therefore transferred to other buildings. The schools from which the upper grades were drawn were the Knapp, Bell, Morse, and Carr.

This new school was called the Southern Junior High School and the names of the others were changed as follows: the East Somerville school became the Eastern, the Winter Hill became the Northern, and the West Somerville became the Western.

The reduction of numbers in the three highest classes of the high school made available the room necessary to carry into effect the elimination of one year of the elementary course, as given in detail in the report of the Superintendent of Schools.

The school organization of the city is now as follows:—

High School—9th, 10th, 11th, and 12th year pupils. After the present

school year the high school will contain no 9th or freshman class.

Eastern Junior High School—Grades 7 to 9.

Northern Junior High School—Grades 7 to 9.

Southern Junior High School—Grades 7 to 9.

Western Junior High School—Grades 7 to 9.

Eastern section of the city—Edgerly School, grades 1 to 6.

Pope School, grades 1 to 6.

Prescott School, grades 1 to 4.

Hanscom School, grades 1 to 4.

Bennett School, grades 1 to 4.

Northern section of the city—Glines School, grades 1 to 6.

Forster School, grades 1 to 6.

Bingham School, grades 1 to 6.

Proctor School, grades 1 to 6.

Southern section of the city—Knapp School, grades 1 to 6.

Carr School, grades 1 to 6.

Morse School, grades 1 to 6.

Perry School, grades 1 to 6.

Baxter School, grades 1 to 5.

Cummings School, grades 1 to 4.

Durell School, grades 1 to 4.

Western section of the city—Brown School, grades 1 to 6.

Cutler School, grades 1 to 6.

Highland School, grades 4 to 6.

Burns School, grades 1 to 4.

Lowe School, grades 1 to 4.

Lincoln School, grades 1 to 3.

Kindergartens—Hanscom, Bennett, Baxter, and Glines schools.
 Atypical Classes—Bennett, Knapp, and Highland schools.
 Vocational School for Boys.
 Vocational School for Girls.

Eventually each junior high school will occupy a building apart from elementary grades and constructed with a view for this particular use. Plans to carry this into effect include the erection of the other two units of the Eastern and the Western Junior High School buildings already included in the architect's plans, the completion of the Southern building in harmony with the portion just completed and the provision of an adequate building for the Northern school on Winter Hill.

Junior High School Curriculum.

1ST YEAR (GRADE 7)		Periods	Periods	
Required			Elective (Choose one).	
English	3	Latin	4	
Arithmetic	3	French	4	
History and Geography	3	Spanish	4	
Hygiene	1	Special Household Arts.....	4	
Music	1	Special Manual Arts	4	
Spelling	1	Typewriting and commercial		
Writing	1	principles	4	
Drawing	1	Elementary Subjects (Spe-		
Cooking and Sewing.....	2	cial)	4	
or				
Shop Work for boys.....	2			
Physical Training				
2D YEAR (GRADE 8)		Periods	Periods	
Required			Elective (Choose one).	
English	3	Latin	4	
Arithmetic	3	French	4	
History and Geography	3	Spanish	4	
Hygiene	1	Special Household Arts	4	
Music	1	Special Manual Arts	4	
Spelling	1	Typewriting and commercial		
Writing	1	principles	4	
Drawing	1	Elementary Subjects (Spe-		
Cooking and Sewing.....	2	cial)	4	
or				
Shop Work for boys.....	2	American Subjects (Spec-		
Physical Training		cial)	4	
3D YEAR (GRADE 9)				
Required			Elective (Choose one group).	
English	5	College:—		
Community Civics	1	Latin	5	
Music	1	Algebra	5	
Physical Training		Ancient History.....	3	
		Scientific:—		
		Algebra	5	
		Ancient History.....	3	
		Mechanical Drawing.....	1	
		Latin or Manual Training	5	

Normal:—

Algebra	5
Ancient History.....	3
Freehand Drawing	1
Latin or French	5

Manual Arts:—

Algebra	5
Mechanical Drawing	1
Manual Arts	7

Household Arts:—

Algebra	5
Freehand Drawing	1
Household Arts.....	7

(Scientific group omits music.
Normal has English four periods instead of five.)

Commercial:—

Bookkeeping	5
Typewriting	2
Penmanship	1
Spanish or French or Manual Arts or House- hold Arts	5

Shop Work for Boys:—

Carpentry, (including project work, construction, and repairs) in all schools. In addition:

Eastern.....	bookbinding
Northern.....	printing
Southern.....	metal working
Western.....	metal working

Hours of Session.

Until January, 1918, the junior high schools were on a two-session basis. The fuel shortage, requiring maximum use of school buildings, necessitated a change to a single session plan, which still continues. The session begins at 8.30 and closes at 1.45, the program providing for a half hour of relaxation and physical training at 10.45 and an intermission for lunch from 12.15 to 12.40.

Program Period.

The periods are sixty minutes in length. Not over one-half may be given to class-exercises, including recitation, testing, instruction, and assignment. At least thirty minutes is allowed for study under the oversight of the teacher, who is at hand to give needed assistance to individual pupils and also to promote proper methods of study.

Home Study.

Habits of study formed as the result of the teacher's influence during the study period will eventually produce better methods in the preparation of lessons at home. The amount of time expected to be devoted to home study is gradually increased to two hours per day in the third year.

Manual Work.

The boys in their manual training do work of economic value. They make small repairs and have had much actual experience in such tasks as setting partitions, laying floors, making tables for typewriting, for sewing, for drawing, and for cooking. Tools are provided on the shop plan rather than on the individual bench plan. The printing shop does a large part of the printing of blanks and forms for general school use. The binding of books for the school department gives an economic value to that form of manual training.

In harmony with the purpose of the junior high school to assist pupils in determining general aptitudes and abilities, these forms of manual work have been chosen for their prevocational value and no attempt is made to give a complete vocational preparation.

Lunches.

In all the schools the cooking is of a practical sort and as a part of their work the girls prepare lunches of large variety that are sold at reasonable prices to teachers and pupils. The income from this sale is sufficient to make the entire cooking work self-supporting.

Electives.

The largest possible freedom of choice of electives is given. A choice that experience proves unwise may be changed after an honest trial. An attempt is made, however, to discourage hasty and ill-considered requests for changes. In the main the choices appear to be well made.

Form of Control.

In the junior high school due recognition is given to the value of encouraging a large measure of self-control on the part of the pupil. A large measure of individual freedom with the consequent self-responsibility is accorded the pupils in place of the more rigid control in the elementary schools. The largest possible encouragement is given to pupil initiative and activity.

Extent of Departmentalization.

In the seventh grade no pupil has work with more than three teachers in addition to special teachers, and in the eighth grade with more than four teachers. In the seventh grade the home-room teacher has her own class at least one-half the time. In the ninth grade the number of different teachers instructing a pupil varies according to the course chosen.

Relations with the High School.

Our city is especially fortunate in the cordial and friendly relations existing between the Junior High Schools and the Senior High School. The teachers of the latter have been consistently sympathetic and helpful in their attitude toward the Junior High School. Pupils who succeed in the High School subjects anticipated in the Junior High School are given advanced standing in the High School according to their attainments.

Sources of Teachers.

Successful elementary teachers have on application been transferred to the Junior High School to teach subjects according to their interest and aptitudes. The commercial training schools, special normal school courses, and the colleges have largely supplied the teachers needed for the special subjects.

Course of Study.

The present year presents many problems relating to instruction. The establishment of the last junior high school, the reduction of one year in elementary work, and the serious interruption due to the epidemic of influenza combine to necessitate a special treatment this year of the course of study. With the opening of the next school year a reasonably definite course will be provided in all the subjects of instruction.

Appreciation.

The cordial support of the parents who have so cheerfully accepted temporary inconvenience in the moving of the children from the various schools in order to locate the junior high schools advantageously has been of incalculable value in accomplishing so large a re-organization. These changes will be fully justified as the junior high school is fulfilling expectations in giving a larger opportunity to all the children of our city.

Very truly yours,

JOSEPH A. EWART,

Assistant Superintendent of Schools.

January 15, 1919.

REPORT ON VOCATIONAL SCHOOL AND MANUAL ARTS FOR
BOYS.

Mr. Charles S. Clark,
Superintendent of Schools,
Somerville, Mass.

Dear Sir:—

I herewith submit my annual report of Drawing, Manual Training and Vocational Work.

The Freehand Drawing is now divided into three divisions; First, the elementary, embracing six grades, with no radical change over past years. The work is largely illustrative, object drawing, color work, elementary design and constructive paper cutting. Second, the Junior High School drawing, using the old VII and VIII grade work for the I and II years with opportunity of differentiating for boys and girls and with the III year work somewhat unsettled at present, due to changes and lack of equipment parallel to that of the Senior High School. A duplication of the latter equipment is needed immediately, in the four Junior High Centers. Third, the work of the Senior High School remains as in past years and is based on the aims and needs of the various elective courses in the school, embracing the cultural and the practical. A large amount of Red Cross material was produced in the free-hand department during this year, and all teachers are to be highly commended for their help.

Constructive drawing begins with the boys in the sixth grade, correlates with whittling and continues throughout the Junior High with shop work, and ends with special work in Machine Drawing and Architectural Drawing in the Senior High School.

This drawing is taught by the regular grade teachers in the sixth, by the shop teachers in the Junior High, and by specially trained instructors in the Senior High.

The definite aims of all drawing are (1) that it shall be a part of our general education, not a specialty or fad; (2) that the sense of beauty shall be cultivated; (3) that clear and distinct visual images of at least common objects, shall be seen and fixed in mind; (4) that sufficient practical skill in the use of pencil, brush and crayon shall enable drawing to be used as a universal language; (5) that the training shall help in other studies and be the means of elevating commerce and manufactures through the increasing use and ap-

preciation of the arts and design, and allow the individual to express his drawing ideas in practical language.

The Manual Training in the Junior High School is based on the type of instruction with the intention of giving the boy a certain practical insight into the elements of industry. Its intent is to provide the boys with some basis for the choice of a vocation and, at the same time, purely a training of the mind with the hand.

The Junior High equipments are fast approaching completion, each school offering the pupil two of the following forms of activity: wood work, metal work, printing and book-binding.

These departments are already crowded and new rooms are needed immediately. The future Junior High Centers need well planned and well equipped shops.

A part of the Junior High work is being carried on in the Senior High, that of bench work, while the wood-turning, pattern making, foundry work, cabinet work, and bench metal work are carried on as usual.

The Vocational School aims to take care of the boy who elects to enter a trade, and we are now well equipped with accommodations for 60 boys. The school has been enlarged by a new machine shop and an automobile shop and is prepared to meet the needs of those industries in the future.

Fifteen boys were graduated in June, all of whom entered the industry for which they were trained. Two instructors and over forty graduates and pupils enlisted for the war. A majority of these served in important special departments as machinists, machine gunners, motor work, aviation and ship construction.

A new building is greatly needed to house additional industrial work, other than those now in operation. The demands of industry vary and in order to be able to meet these demands, the Vocational School should be ready with equipment.

The following statistics are from the State Board report for 1917-1818.

Enrollment	89
Graduates	15
Graduates placed in industry	15
Boys leaving, placed in industry	22

Productivity Report.

Cash received for work	\$1,323 19
Work done for the school	527 94
Work done for municipal departments	1,463 09
Work done for personal use (pupils' own and outside work, Red Cross work)	2,031 76
	<hr/>
	\$5,345 98

School paid for its own running expenses \$1,051 01

Very truly yours,

HARRY L. JONES,

*Principal of Vocational School for Boys
and Supervisor of Manual Arts.*

REPORT ON VOCATIONAL SCHOOL AND DOMESTIC ARTS FOR
GIRLS.

Mr. Charles S. Clark,
Superintendent of Schools,
Somerville, Mass.

Dear Sir:—

Because of existing conditions brought about by the war, where it has been possible for unskilled labor to command a very high wage, the attendance of girls at the Vocational School has been as seriously affected as in all the other Vocational Schools of the State. That many girls would be in school except for these conditions, is evidenced from the fact that the average age this year of the entering class is 14 years, 6 months. Four girls have left school,—two moved from the city, one went to work, and one was placed by school (will graduate in June).

Two decided changes have been made in the course of study. One, the laying aside of the regular dressmaking work temporarily, and substituting the making of Refugee garments; the other the teaching of the use of food substitutes and the saving of the necessary materials urged by the government. Raised bread was made using half substitutes; syrup was used as half sweetening in recipes; honey and condensed milk were used in frostings. Cakes were made with barley flour, and pastry with oat and corn flour. Vegetables were scalloped with very small amounts of meat. Government bulletins were freely discussed in class and sent home to parents by request. Interesting exhibits were made by the second-year girls. These exhibits were used in the different parts of the city by the Food Administration, and showed prepared foods, using the substitutes for wheat, meat, fats, and sugar.

In the early fall canning and preserving were taught, and this not only brought a number of orders for marmalades,

conserves, and piccalilli to the school, but enabled some of the girls to earn their victory money by making preserves to sell among neighbors.

The second-year girls were taken to visit the cottages on the Common; the Food Facts, Demonstration, and Child Welfare cottages; also Jordan's suite of rooms. This was partly in connection with Food Study and partly with Household Management. Every year, while planning a home, and studying the care of the house the second-year class visits Jordan's furniture department and local department stores, where suitable furniture, rugs, and dishes are selected according to each girl's ideas of furnishing her own home. We have found this of practical value, added to the study of the artistic side of home furnishings; for it has been applied directly in the refurnishing of some of the girls' own rooms, and in some cases in the furnishing of the girl's own home.

Since millinery has been introduced into the Junior High Schools, the girls in the millinery class at the Vocational School have made all the millinery models to be used by the teachers for instruction, and have made the dolls' hats of buckram, that are to be covered by the pupils in the Junior High Schools.

In the dressmaking department half of the regular time was given to Junior Red Cross work in the making of dresses, aprons, and infants' layettes. Knitting was also taught, and many articles made for soldiers and refugee children.

There has been a wealth of material introduced into the academic work this year, with all the government suggestions; thrift stamp savings, victory girl pledges, and Red Cross activities. Each one has been taken up either as related work in arithmetic, or cultural work in English. Thrift stamps were purchased regularly. \$325 was expended to January 1, 1919. This year there have been so many other demands that this way of saving money has been partly set aside.

In the Victory Girls Campaign \$81.50 was pledged; but this does not cover the full membership of the school. The money has been earned in various ways. Some have done extra work at home, while others have worked for neighbors and friends; washing dishes, darning stockings, ironing, cleaning, doing errands, waiting on table, and caring for children. A few of the older and more capable girls have worked Saturdays and evenings in stores; one has "rolled" in a candy factory, one has done waitress work and made out bills at the Harvard College officers' mess, another has made Victory rings, and sold eggs from the hens she has raised. Several have made and sold jellies and preserves. One girl has not only earned her victory pledge, but has given her services to a group of little girls at the Annie McCarty House where she is teaching them the cooking of simple home dishes.

Fifteen girls graduated in June and were placed in permanent positions. Of these seven are working in dress-making shops, two in millinery workrooms, two in tea rooms, two staying at home, and two in clerical work. Two of these have married during the year, and one is using the budget system taught in the business course, in keeping her own living expenses.

This class had an interesting experience for three months last year, when one of the cooking instructors was called away for war work, and the other instructor had to take her place in the High School building. The first-year class being left without a teacher of cooking, it was planned to take a small group of first and second-year girls, and give them the entire charge of pupils' and teachers' lunch. Each group served a month. In that time all the food was bought by the two girls in charge, the cost of each meal was estimated, and the menus for each day planned and carried out. Three first-year girls served as waitresses and kitchen girls. When unexpected guests meant a quick adjustment, it was made as well as with a teacher present. One of the group, a war bride, had her first experience in household responsibility in this way.

As women's trades have been in less demand during the war, some of our former graduates have taken very good clerical positions, the business course the school offers having prepared them to do so. One offered her services to the Red Cross of her home town during the first influenza epidemic, and has been employed by them ever since. She served on both day and night duty as a nurse, and in some cases had prepared the family meals.

Home Project Work.

This is part of the regular school work; to relate as closely as possible home and school problems, with the co-operation of the mother, and enable each student to assume increasing responsibility in her own home. It was found before starting this work for the year that

- 92.5 % help at home before coming to school.
- 95 % help after school,
- 100 % help on Saturday,
- 87.5 % help on Sunday.

The household tasks begin with simple duties, and progress as the individual girl improves. This project work is carried out first by the instructor in cooking visiting the home. An appointment with the mother having been previously made, the general outline is talked over with her and the aim explained. This year we have stressed the use of the substitutes

for wheat, meat, fats, and sugar, and have asked that the daughter be allowed to help with the cooking or baking, later to assume entire charge of it for a limited time.

A task is assigned a pupil for four weeks. This task is discussed with the pupil each week and when possible, as in the case of bread, a record made of a sample brought to class, and a mark given for its appearance, taste, and texture. When this bread has been made sufficiently often for the instructor to feel sure that it will continue to be well made, the final report from the mother, and the teacher's final report are added to the project card, and the project finished. Another task is then assigned that will function in the home, and carry out the school training.

Pupils are given full time or half time credit in hours for each project. When the instructor gives a definite project, and can follow it up closely by visits to the home and examination of completed work, the full credit in hours is given.

When a pupil is obliged to stay home because of illness in the family, and does all or part of the household work, she receives half time credit if she keeps a record of what she has done. This difference is made because the instructor cannot follow up all the work, and because no regular assignments for standards can be given.

If a pupil, who is fond of sewing, makes a hat or dress at home, keeps a record of the number of hours spent in the making of it, and keeps to standard, she receives half time credit.

This is often a great help to a girl who must lose time from school because of illness at home, and allows her to make up part of her absence.

Junior High Schools.

Household Arts departments are in operation in the four Junior High Schools. Millinery has been introduced into the second and third years, with dressmaking and cooking taught in all three years.

This functions in the school as usual; but has been sufficiently elastic to change temporarily to meet patriotic needs.

In dressmaking refugee garments have been made according to the requirements of the Junior Red Cross. In cooking, lunches are prepared for teachers and in several schools pupils are served as well. Sandwiches, cookies, fruit, desserts, cocoa or soup are prepared by the pupils and taken to the different rooms to be sold. During the Victory Girls drive children made cookies, cake, and sandwiches at home, selling them at recess, and earning part of their pledges in this way.

The canning of vegetables and fruits has been taught; in two schools the drying of fruits and vegetables, which were also sold to earn money for the Victory Girls.

Senior High School.

Domestic Science Department.—Fifty-three girls have registered for cooking this year. The course continues the same as last year, of course adapting it to teach the use of the war substitutes.

At the opening of school in September it seemed desirable to serve the teachers' luncheon at the close of school instead of at the regular noon hour. This necessitated quite a division of operations; so that while some of the classes furnish some part of the pupils' lunch at noon, others prepare for the after school service.

Special luncheons have been served at various times. In February of last year some of the senior class prepared and served dinner at the graduation of the February class. There were sixty guests present, including the Chairman of the School Board, the Superintendent of Schools, and the Head Master. In March a luncheon was served to thirty-five teachers of Science, and at different times during the year refreshments were served to several clubs of the school.

Domestic Arts Department.—One hundred and six girls elected dressmaking this year. Special emphasis was placed on the renovating of dresses, although some work was done for the Surgical dressings classes when eighteen aprons were made for the Red Cross units. As this subject is entirely elective, it did not seem wise to set aside this regular work for the refugee garments. The following is a record of the work accomplished by these classes:—

No. of cotton dresses made	65
No. of voile dresses made	44
No. of serge dresses made	18
No. of silk dresses made	10
Separate skirts	16
Graduation dresses, white voile	13
Dresses remodelled	8
Order work	2
Coat suit	1
Aprons for Surgical dressings class.....	18
Sets of underwear	6
Materials used	1,038 yds.
Cost of material used	\$547 40
In most expensive dress	10 50
In least expensive dress	1 00
No. of dresses material costing more than \$5.00.....	16
Less than \$2.00.....	57
Approximate commercial value of work.....	\$1,186 33

High School Lunch Room.

About 800 students are served each day. While it is not possible to find out exactly how many take advantage of the lunch room, it is possible to approximate the number by the additional amount of food prepared and the additional amounts of raw materials purchased.

Prices have not been raised in spite of the fact that all other school lunch room prices have advanced with the increase in costs. The credit for this is due cooking instructors and the lunch room manager, for their faithful efforts in careful planning, avoiding all waste, and eliminating as far as possible all but absolutely necessary expenditures. The wishes of the Food Administrator have been adhered to, and posters and bulletins have been displayed where the students could understand why some changes were necessary.

Graded Schools.

With the transference of upper grammar grades to the Junior High Schools, sewing is taught in the fifth and sixth grades only. Here, as in all the schools, Junior Red Cross work has been substituted for the regular work of the course. It has been possible to grade this, however, so that the children are taught according to the general educational plan, and have gained rather than lost by the substitution.

Evening Practical Arts Classes.

In November, evening classes in Practical Arts were opened for the seventh season. Two centers were used: the Senior High School, where dressmaking was taught, and the Western Junior High School, where there were dressmaking and millinery classes. The unit system of instruction, approved by the State Board of Education, was carried out, each unit consisting of a term of 10 lessons, and a definite piece of work assigned for that time.

Special emphasis was placed on the renovating of materials and using them in the making of hats and dresses. Children's coats were made from old cloth skirts, materials were dyed and combined with silks found at the remnant counter, and with the addition of braided designs, made into very attractive dresses.

Hats were made from bits of old materials, and in one case the velvet flounce of a discarded dress. For the most part it was this renovated material that was used, but there were also hats and dresses of new materials, and the exhibition showed a wide variety.

Cooking was offered as a third course, but was not popular, due probably to so much instructive material being given out by the Food Administration.

WAR ACTIVITIES.

Red Cross Work in the Schools.

This was started last year in all the schools, and has gone forward actively. To a great extent the regular courses have been laid aside to help supply the need of the soldiers and refugees.

Aside from the patriotic and helpful spirit developed in the girls, the educational side has been strictly followed, by apportioning the quotas of work to fit the different grades. Classes of volunteer after-school workers have been formed in some of the schools. Each group comprises about 15 girls with a teacher of the school in charge and a Senior Red Cross worker as leader and work inspector. Each girl of the group completes one garment. There has been the heartiest co-operation here, and it has been so planned that no one teacher is called upon for duty after school hours except for a limited time, after which another volunteer teacher takes her place with a new unit formed. In this way, while many are gladly offering their services, no one is called upon for after-school work for an indefinite period.

There are four of these after-school units at the Senior High School, each unit meeting once every two weeks, and three at the Western Junior High School, meeting every week.

The approximate list of articles made through December, 1918, in all the schools is shown in the Statement of War Activities in Somerville Schools.

Victory Girls.

This was a part of the War Work Campaign started in November, for children over ten years of age, and particularly affected the Junior and Senior High Schools. Each school appointed a committee and sub-committees to plan ways and means of finding work for all children, who might become members by earning their pledge money. This committee was in touch with the executive committee of the city co-operating by exchanging opportunities for employment according to the district where the child lived. Places were investigated in Somerville first for the younger children, and afterwards in Boston and Cambridge for those of legal working age. These last were mostly special positions in connection with the Thanksgiving and Christmas rush, and in most cases meant from several days to a week out of school, or else night work.

All calls made upon the Vocational Committee by the employers were referred to the school nearest the home of the prospective employer, and the committee of that school selected the child for the work.

The public responded generously. Housekeepers with light household tasks, and mothers with babies to be taken out each afternoon gave some little girls the chance to earn their pledges, while some stores and factories offered special Saturday work. In the Junior High Schools some of the children made candy, cakes, and cookies and sold them at recess time, while others prepared and sold dried vegetables and fruits done up in attractive packages. The report of one member of the executive committee follows:—

Victory Girls Report.

Girls who applied for positions	55
Girls over 15 years	6
Girls under 15 years	49
Occupations wished for particularly, take care of babies, wait on store, go on errands.	
Employers interviewed	20
Positions offered (in large establishments),	5
Work found for (To Christmas),	15

Kind of work found:

Lunch counter, lunch room, accommodator, sales girls, factory work, ironing, housework, clerical work, lace making.

Report of employers interviewed:

- 5 will not take part-time workers.
- 3 offer Saturday work only.
- 2 offer all day work 3 days before Thanksgiving, 4 days before Xmas.
- 4 families who want occasional service.
- 1 (factory work) can use 50 to 75 children over fifteen years.
- 5 offer light household tasks.

It was suggested to those children interviewed that they give up some chewing gum, candy and movies, that they let all their neighbors know that they are Victory girls, and are ready to help, and that they let the worker in their school know what they can do to earn money.

Very truly yours,

MARY HENLEIGH BROWN,
Principal of Vocational School for
Girls and Supervisor of Domestic Arts.

January 22, 1919.

STATEMENT OF WAR ACTIVITIES IN SOMERVILLE SCHOOLS.

War Savings Stamps. Teachers and pupils entered most heartily into the campaign for the sale of war savings stamps and thrift stamps. In many schools the need of patriotic saving was constantly presented by four-minute speakers, the force of whose arguments and the earnestness of whose presen-

tation brought large results. Striking posters and blackboard drawings by pupils kept the subject constantly before the minds of all.

Much enthusiasm was aroused as the result of a large civic parade on Flag Day, June 14. One division was composed of school officials, teachers, and children from the high, junior high, and grammar schools of the city. The most excellent showing of this division attracted much favorable comment. The high school was headed by their own buglers and fife and drum corps. Similar music furnished by a large group of junior high school pupils assembled at short notice revealed much talent and won well deserved approval.

As shown elsewhere in detail in this report, the total number of pupils buying stamps during the year was 7,666, the total value being \$81,820.53.

Junior Red Cross. A drive for Junior Red Cross memberships and work resulted in a one hundred per cent. enrollment of the schools of the city. Money contributions amounted to \$3,782.89.

The following list of articles made for the Red Cross speaks convincingly of the patriotic interest of the children.

Afghans	41	Needle Books	236
Applicators	600	Nightgowns	21
Aprons	20	Nurses' Mitts	25
Blankets	1	Paper Dolls	1237
Bloomers	10	Petticoats	12
Boys' Undervests	20	Pin Balls	3114
Brassieres	77	Property Bags	614
Button Bags	1005	Quilts	35
Chemises	21	Sailors' Bags	213
Children's Bonnets	19	Sailors' Handkerchiefs	384
Children's Dresses	12	Satin Aprons	20
Children's Handkerchiefs	2	Scarfs	1
Comfort Bags	25	Scissors Cases	105
Comfort Kits	150	Shawls, crocheted	24
Comfort Pillows	93	Sleeping Caps	12
Compresses	6518	Socks	174
Crutch Pads	90	Swat Sticks	113
Diapers	812	Sweaters	20
Face Cloths	2	Tampons	2402
Gun Wipes	270	Thread Winders	3303
Helmets	4	Tobacco Cases	68
Hospital Bootees, pairs	184	Tooth Brush Cases	274
Hot Water Bottle Covers	43	Weight Bags	177
Housewives	74	Women's Dresses	38
Italian Thread Winders	13218	Wristers, pairs	4
Joke and Scrap Books	435		

Total number of articles..... 36,372.

Furniture Made:

25 tables, 18 benches, 8 screens, 9 costumers, 24 ink-stands.

Total value..... \$2,175.50.

Books for Camp Libraries. While there was a generous response to this call, yet it is not possible to give exact figures, as contributions were made in part by children in the school buildings while many individuals took their books directly to the Public Library. In addition, cash contributions had previously been made to the amount of \$331.26.

Halifax Fund. A request for money to be sent to the relief of the sufferers in the Halifax disaster was answered by gifts to the amount of \$537.49.

Red Cross Drive. The week of May 20 was chosen for the campaign for this cause. The schools raised for this most worthy use the sum of \$1,435.62.

Nut Shells and Pits. In response to the appeal to save these materials for the making of gas masks for the soldiers, boxes and baskets were placed in the several schools and large savings were made.

Selective Draft Board Work. The large amount of work entailed in the making and indexing of the cards necessitated in the performance of the work of the three Selective Draft Boards of the city was in large measure performed by volunteer teachers. An inconspicuous but highly valuable patriotic service was rendered by these many teachers.

Nursing. During the time that schools were closed as the result of the epidemic of influenza many teachers volunteered as nurses or for other service in connection with the hospitals.

Liberty Loans. No body of workers responded more promptly and generously to these several calls than did our teachers. In their own personal purchases and in the clerical work connected with the several drives, they acquitted themselves in a manner to do credit to their profession.

Home and School Gardens. As a patriotic service gardening assumed a dignity and importance during the year of 1918 that had never before been given it. School and home gardens were given more than usual attention and several canning clubs were formed to conserve the products of the gardens. In a contest at Worcester, September second, with nineteen cities and towns competing, our exhibit was awarded second prize.

Camp Sunderland. The work of this camp which included about sixty boys from the high school and junior high schools is described in detail in the report of the Headmaster of the High School.

Camp Victory. The success of this camp of high school girls was most convincing of the value of girls in this unusual form of service. This also is fully described in the high school report.

Other Farm Service. Many boys enlisted for work from planting to harvesting time on nearby farms. At a time when many farmers were in almost desperate straits because of the shortage of help, these boys fully performed the work of men.

United War Work Campaign. In the furtherance of the work of the seven great interests represented in this campaign, pupil participation took the form of enlistment as Victory Boys and Victory Girls, pledged to earn, save, and give for this cause. Teachers assisted by forming committees in the schools to help the pupils in finding ways to earn their money. This work is progressing most satisfactorily. The contributions of teachers to this cause, as given through the schools, was \$749.85.

Somerville's quota of boys and girls was 1,737. The number that responded was 1,805 boys and 1,954 girls, a total of 3,759, pledging a total of \$17,855.50.

These facts are most convincing evidence that the schools of Somerville during the year of war service just closing have many times

Gone Over The Top.

STATEMENT OF THE WORK OF
SOMERVILLE HIGH SCHOOL PATRIOTIC ASS'N.

October 1, 1917. — January 1, 1919.

Probably the pioneer organization of its kind among high schools in this section of the country, if not in the whole country, was started October, 1917, by the pupils and teachers of the Somerville High School. Through the efforts of the principal and the members of the Students' Council of the school, a plan was originated to form the *Somerville High School Patriotic Association*, the membership to include both faculty and pupils.

The object of the organization was to assist the nation, state, or city in any philanthropic or humane movement both during the war and at any other time. Subdivisions of the general work included such activities as Junior Red Cross, knitting, sending magazines to soldiers, selling tags throughout the city for charitable work, rolling bandages, aiding the government in clerical work, teaching wounded soldiers, and the like.

Every pupil and teacher of the school signed an enlistment blank, on which he or she pledged service to some one or more of the activities to be conducted by the Association. The pledge was as follows:—

"I promise to hold myself in readiness to perform any service consistent with my home and school duties that will directly or indirectly assist my country, my state, or my city."

On the back of the pledge card was a list of activities which the enlisted member checked to designate preference for some particular kind of work.

The motive in forming this organization was to have in readiness means to assist in the various activities which the school might be called upon to perform from time to time.

It was felt that through this one central organization better and quicker results might be obtained than by handling each activity separately in the school. In addition it was felt that through the medium of this organization each pupil of the school would be given a much better and more practical opportunity for civic education than he would obtain otherwise.

Following are the reports of the Treasurer and of the groups in charge of various war activities:

SOMERVILLE HIGH SCHOOL PATRIOTIC ASSOCIATION.

STATEMENT OF RECEIPTS AND EXPENDITURES.

March 1, 1918 — January 14, 1919.

1918		Receipts.	
March	1, Contribution	\$ 1 00	
	4, Sale of Old Papers and Magazines	57 61	
April	11, Girls' Athletic Association Dance	13 75	
	12, Contribution of pupils for Local Charities	30 00	
	12, Sale of Old Papers and Magazines	100 00	
	16, Knitting Club Dance	17 60	
June	6, Sale of Papers and Magazines	42 89	
	25, Sale of Tickets	9 00	
	25, Donation from Rooms 324 and 321	50	
			<hr/>
			\$272 35
			<hr/>
			\$272 35
			<hr/>
1918		Expenditures.	
March	20, Lumber	\$ 8 17	
	20, Cloth	10 86	
	27, Oilcloth for Surgical Dressings Room	3 25	
April	11, Shears for Surgical Dressings Room	5 28	
	11, Cloth for Surgical Dressings Room	3 75	
	11, Varnish for Surgical Dressings Room	1 15	
	17, Contribution to Associated Charities	5 00	
May	14, Lock for Surgical Dressings Room	1 35	
	27, Hats and Sashes for parade	11 90	
June	3, Magazines sent to soldiers	70 00	
	26, Red Crosses for parade	2 25	
Oct.	31, Laundry	1 70	
1919			
Jan.	8, Somerville Civilian Relief	2 00	
		<hr/>	
	14, Total Expenditures	\$126 66	
	14, Balance	145 69	
			<hr/>
			\$272 35
			<hr/>

MARY F. OSBORNE, *Treasurer.*

Knitting.

The Knitting Club gave several dances to earn money for the Junior Red Cross.

The Club had a Christmas party in 1918 at which the members made and packed candy bags and toys to be distributed by the Associated Charities.

The Knitting Club sent to the Red Cross in 1918:

- 11 helmets
- 36 trench caps
- 1 scarf
- 6 pairs of wristers
- 11 sweaters
- 62 pairs of socks
- 21 pillows
- 6 knitted squares
- 10 shawls

The Club also undertook sewing for the relief work and made eighteen dresses.

Newspapers and Magazines.

From January to April a competition was held between rooms to bring in the largest amount of old magazines and newspapers. These were carried to school by pupils in small and large bundles, also collected in larger quantities by autos, and were tied up, weighed (to give proper credit to the rooms), and piled up in one of the basement rooms. At first local junk dealers gave 40c per 100 pounds for the newspapers, 55c for magazines; later by an agreement with the Boston Paper Board Company of Albany street, in truck loads by the ton, newspapers were sold at 55c per 100 pounds; magazines, 70c per 100 pounds. The amount of \$200.50 was turned over to the treasurer of the S. H. S. P. A.

The five highest rooms collected as follows:—

Teacher	Room	Total number of pounds	Average for pupil
Miss Towne	122	10,938	199
Mrs. Gilbert	211	4,524	156
Miss Campbell	323	2,267	113
Mrs. Topliff	103	2,544	77
Miss Batt	202	2,811	73

To the winning room an appropriate poster was awarded in an assembly period. Of the total amount of money received \$70.00 were spent in subscriptions to magazines for Camp Devens Libraries. Many copies of recent issues were forwarded to the Harvard Radio School, Camp Devens, and the Annie E. McCarty House.

Red Cross Surgical Dressings.

One of the active branches of the Somerville High School Association has been the Surgical Dressings. The Association

chose Miss Lillian Trask chairman of the student body, and Miss Congdon chairman of the faculty.

A definite amount of training was required by the government for the supervision of the work room, and two of the teachers took a special course at the Metropolitan Red Cross Rooms, Boston, and received certificates.

In January the faculty committee on surgical dressings met and voted to form a class, this class to meet every Wednesday afternoon from 3 to 5. The plans were carried out, and on the following week twenty teachers met at the Red Cross Rooms, Somerville, to receive instructions. Later on, two different teachers from these classes were assigned to supervise the work each day at school.

Meanwhile Room 308 on the third floor of the West Building was fitted up for the work, and it was quickly changed from a dark schoolroom to a light, cheerful workroom.

The Manual Training Department of the school made the tables and other fixtures for the room, while the Art Department painted the diagrams on the green oilcloth coverings, which were used for measuring and folding gauze dressings. The Science Department attended to the lighting of the room. The aprons and veils worn by the girls were made under the direction of the Sewing Instructor. In this way much was accomplished through school co-operation.

In order to arouse enthusiasm, Mrs. Thomas Allen of the Boston Red Cross came out to talk to the girls on the possibilities and the needs of surgical dressings. So many answered her appealing call to join in this work that appointments had to be made by lot, from the Senior and Junior classes. These classes met on Monday, Tuesday, Wednesday, and Thursday of each week from 3 to 5. The first meeting was on March 28, 1918.

The work done by the surgical dressings classes was difficult and varied. During the first month gauze dressings were made. These dressings consisted of compresses and wipes folded according to the charts on the tables. Owing to the shortage of gauze during the month of May, a new work was taken up, namely, the making of tampons and applicators. These were absorbent cotton swabs and washers, and were quite necessary to equip the soldiers' emergency packets.

Four of the surgical dressings classes demonstrated the above-mentioned work in the windows of two Drug Stores. Twenty offered their services for the Red Cross Drive, in May, and received donations amounting to more than \$1,000. 123 members of these classes were in the Third Liberty Loan Parade of Boston, and they also participated in the Somerville Parade.

The classes met regularly until the second week in June.

when it was deemed best to discontinue the work until fall.

The amount of work done by the classes is as follows:

Gauze Dressings	4,711
Tampons	2,084
Applicators	600

Clerical Work.

In September, 1919, thirty or more teachers and pupils made copies of 3,600 registration cards for Exemption Board No. 1. Later, some work of a similar nature was done for Exemption Board No. 2.

Also, 20,000 envelopes were addressed by high school pupils for the Liberty Loan drive, and circulars were folded and inserted with an enclosure into the envelopes.

During the four weeks' enforced vacation in the fall, ten or more teachers from the High and other schools listed 3,600 Exemption Board cards alphabetically on legal-sized paper, typing the work in triplicate (123 pages of original copy) under the following heads:—

Name	Address	Age	Color	Serial No.	Order No.
------	---------	-----	-------	------------	-----------

This was for Exemption Board No. 2.

During that period they also did similar work for Exemption Board No. 1, listing the cards consecutively by serial numbers instead of alphabetically. This time they made five copies at a time under the following heading:—

Serial No.	Name	Address	Age	Color	Order No.
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After school opened, pupils in the senior typewriting classes did this same work for Exemption Board No. 2, listing 3,600 cards on legal sheets, five copies at a time. This work lasted four weeks, from the last of October to Thanksgiving time.

In addition to the foregoing, teachers filled in spare time with similar work at Exemption Boards 1, 2, and 3. No records of the amount of time spent in clerical work were tabulated at the time, but from data secured subsequently it has been learned that not less than 1,200 hours of time were spent by high school teachers in clerical work alone during the enforced vacation.

Ten or more pupils worked at one of the Exemption Boards from one to five afternoons, and many pupils worked at school outside of school hours on Exemption Board work.

Several pupils did typing or other clerical work at the Red Cross rooms afternoons following the vacation.

Correspondence.

The work of corresponding with the soldiers was begun March 1, 1918, and continued through the summer of that year.

150 soldiers and sailors have been remembered. The following list includes the various contributions made by the pupils of the school.

- 616 Letters
- 127 Post cards
- 678 Magazines
- 32 Boxes of candy
 - 1 Round robin
 - 1 Scrapbook
 - 1 Language manual
- 14 Packages of cartoons
- 6 Photographs of school activities
- 1 Book
- 1 Song book
- 1 Month's subscription to the Boston Post.

Work Done by the French Department.

The French department from the beginning of the war sent comfort bags to wounded French soldiers in the hospitals. The pupils also made French Christmas cards to send to the hospitals, and they and the leaders have corresponded with French soldiers.

Teachers of the department have also assisted in the work of the Daughters of the Revolution and of private individuals in correspondence with French women,—mothers of adopted orphans and women in whose houses American soldiers have been billeted.

Local Charities.

The work of this committee was carried on principally in connection with the Annie E. McCarty House. Oil for illuminating purposes was provided for the season; fourteen roller towels were sent, also forty books for the library, and two games.

Five dollars were contributed to the Associated Charities, whose needs seemed to be beyond our resources.

Through the Civilian Relief of the Somerville Branch of the Red Cross two baby dresses and three blankets were contributed to soldiers' families.

Manual Training.

During the past year the work by the Manual Training Boys for Red Cross and other war activities has been carried on both in school time and in out-of-school time. A group of twelve boys volunteered to give at least one afternoon a

week whenever they were needed for manual training war work. This group of boys, working in relays, was responsible for the building of the tables for the Surgical Dressings Room and for other work done at the Red Cross Rooms on Highland Avenue. A number of these were boys who did not take manual training in their school course.

The other manual training war work has been done in connection with the manual training work in the school; and besides fitting up the surgical dressings room, pupils made the following articles:—

- 6 Large screens for the National Red Cross.
- 8 Costumers for the National Red Cross.
- 75 Canes for the Local Red Cross.
- 5 Banner Poles with cross bar and ornament on top for Junior Red Cross parade.
- 1 Large banner pole for Junior Red Cross parade.
- 1 Banner pole for War Savings Stamp parade.
- 6 Box signs or transparencies for Red Cross parade.
- 12 Placard supports for war work parade in Somerville.
- 24 Placard supports for war work parade in Somerville.
- 5 Dozen knitting needles for grade schools.

Boys' Debating Activity.

During the school year of 1917-1918 an agreement was made with the other schools constituting the Interscholastic Debating League whereby interscholastic contests should be suspended during the war. The Boys' Debating Society of the Somerville High School accordingly devoted its attention to war work, and, following its annual custom, selected eight speakers for its teams.

These young men found an opportunity for action in the launching of the drive for War Savings and Thrift Stamps. They composed appropriate speeches and addressed the entire student body of the school, each speaker having been allotted a number of rooms in which to speak. As a result the sale of stamps in the school was given a great impetus, and the boys gained much valuable experience in speaking.

The success of the student campaign for War Savings Stamps was so noticeable that the Mayor of the city requested that the boys be added to the group of adult "Four-Minute Speakers." In this new capacity they made several addresses in the various theatres of the city and were assigned to give talks at lodges, socials, and club meetings. In addition to the assistance thus given to the war cause, the experience and training received by the speakers was especially valuable.

Girls' Debating Activity.

Owing to war activities and a shortened school year because of the coal situation, it seemed wise to omit the Girls' Triangular Interscholastic Debate for the year.

The members of the two teams, however, rendered much assistance by speaking in behalf of various appeals. These eight girls made most effective speeches on the occasion of the drive for Junior Red Cross membership, resulting in nearly one thousand members the first day. They also were largely instrumental in arousing interest in the Home Garden Movement and in finding thirty girls who engaged in farm work during the summer. This fall they formed the nucleus of the group of twenty girls who spoke effectively in the Earn and Give Campaign, which resulted in nearly five hundred Victory Girls.

Freehand Drawing.

The Freehand Drawing department assisted in the following manner in furthering patriotic work:

There were 240 pupils in the department, and each made a knitted square 7" x 7". These were assembled into three afghans, which later counted as \$15 each towards the membership of the school in the Junior Red Cross. Also, over twelve dozen trench candles were made in the department and given to different people outside of the school to be sent across to the soldiers.

Between three and four hundred posters were made in the department during the year, as follows: 260 for Thrift Stamps, fifty for Senior and Junior Red Cross, fifty for Liberty Bond drives of each issue; also several posters to arouse an interest in farming, canning, and other forms of food conservation.

The Thrift Stamp Posters were distributed over the school building, City Hall Annex, and in shops, post-offices, and banks.

Food conservation posters were sent with exhibits of food from the school to several shop windows and halls of the city.

Seventeen Thrift Stamp posters were made for the National War Savings contest issued from Washington, D. C. These were first judged at the Massachusetts Normal Art School, and fifteen were exhibited there. Only twenty-seven of the four hundred posters sent to the Normal Art School for this contest from all the New England States were selected by the judges, and one from the Somerville High School freehand drawing department was among those sent to Washington.

Two School Honor Rolls for the World War have been designed; and the names of the 371 graduates printed on the

one, and 142 undergraduates on the other.

A poster was especially designed for the room collecting the greatest amount of old newspapers and magazines for a camp literature fund.

Several war slogans were originated and lettered in illuminated text, and war poetry was lettered for the school library. Also a sign for the boys' farm camp at Sunderland was designed and executed by members of the department.

The department has loaned many of its war posters to the city library and to some outside schools for exhibition purposes.

The department has also decorated the school hall for several patriotic meetings.

Money Drives.

The school has been active in all of the various patriotic requests for money. All of the Liberty Loan drives have been heartily supported by pupils and teachers, and thousands of dollars have been contributed. Four hundred dollars' worth of bonds was purchased by various classes and rooms, and presented to the school. Over fifteen thousand dollars' worth of War Savings Stamps has been purchased by pupils. The school joined the Junior Red Cross, subscribing an amount equivalent to twenty-five cents per pupil. In addition, pupils contributed \$310.00 to the Senior Red Cross. About seven hundred pupils have joined the Victory Boys' and Girls' movement and have promised to earn and give \$5.00 per pupil for the United War Work Campaign. The school in part or as a whole participated in the Red Cross Parade in Boston, May 18, 1918; in the Memorial Day Parade May 30, 1918; and in the War Savings Parade June 15, 1918.

Victory Boys and Girls.

Approximately fifty per cent. of the pupils of the school responded to the appeal of the United War Work Campaign and enrolled themselves as Victory Boys and Victory Girls. This enrollment entails a pledge from each individual to earn and give within an allotted time \$5.00 for social welfare work among soldiers and sailors. Many of the pledges have already been redeemed, while a number of signers are still earning money for payment.

Farm Work.

BOYS.

Somerville High School participated the past two years in the work of placing boys on farms as an aid to assisting in the cause of the war. During the spring and summer of

1917 thirty-six boys were placed on farms in Massachusetts under the supervision of Mr. Mahoney; and of this number twenty-seven honorably completed their term of service.

In the spring of 1918 this work was undertaken by the National Government under the Department of Labor. The division was known as the United States Boys' Working Reserve, and the boys signed an enlistment blank to participate in farm work between the dates of May 1 and October 12. Forty-nine boys from the Somerville High School enrolled in this work, thirty-four of them being placed in a camp at Sunderland, Massachusetts. The camp was under the supervision of Mr. Blodgett and Mr. Tuttle, two members of the faculty; and the boys worked for farmers in the vicinity and were of valuable assistance in the raising of their crops. Forty-four boys of the forty-nine who enrolled were given honorable discharges after the season. The School Officials gave much encouragement to this form of war work, and the boys were made to feel that they were real participants in the cause.

At a general assembly of the Somerville High School, the honorable discharges were awarded by a State Official, and badges were given to the boys as further rewards for their work.

Farm Work.

GIRLS.

A group of thirty-five girls, under contract with the American Food Conservation Company, Mrs. John P. Fox, president, went to the Davis Farm in Upton, Massachusetts, in the middle of June, 1918, to assist in the raising of food for the purpose of dehydration. Twenty-six of this unit later, owing to the failure of the Company to make good, went to Bolton, Massachusetts, under the direction of the Worcester Farm County Bureau, July 7, 1918. The girls were employed from July 7 to October 12, on farms in the vicinity of Bolton. They worked eight hours per day for \$1.50 a day, six days in the week, until September. From that time until October 12 they received \$2.00 a day for their services.

While at Bolton the unit occupied a camp back of the Town Hall and were under the charge of a teacher, Miss Elizabeth Hunt. In a short time the farmers voluntarily testified that they preferred girls to boys, chiefly because the girls were more conscientious. The girls balked at nothing in the way of work. Their tasks consisted of cleaning stables, scattering manure, planting, transplanting, weeding, cultivating, plowing, haying, harvesting and picking apples.

Of their work the farmers spoke in the highest terms. One of the farmers stated to me that he had never known a man to stack a field of corn so well as one of the group had

done it for him. They were particularly successful in picking apples because of their care in handling them.

The girls paid \$5.00 a week for their board, laundry, and running expenses of the camp. With this fund the expenses of the camp were met. Good, wholesome food was served to the girls, and at the end of the season we came out even.

The spirit of that unit of girls was excellent. They met all of their difficulties in the spirit of good sportsmanship. When there were a few days without work, their spirit never flagged. Through rainy days, through hot days and long stretches of monotonous work, their spirits and their energy were unfailing. There was very little sickness in the camp. The girls were loyal to the camp ideal from start to finish. Of the thirty-five who started in June, twenty-two remained to the close of the season. Those who left, for the most part, did so for good and sufficient reasons. The farmers were so enthusiastic about their work that they are anxious to have the same group come back another season.

War Records.

As soon as the United States declared war, a War Records Committee was formed in the school to keep records of all graduates and undergraduates who entered the service. It was also decided to include non-graduates who had been members of the school for at least two years.

The records have been compiled by consulting lists in City Hall, the honor rolls of the various churches in the city, by close study of the Boston and Somerville papers, and by keeping in touch with the boys.

There are now on our records the names of twenty undergraduates who left school to enlist, 371 graduates, and 122 non-graduates. This includes boys who are in the French and British armies as well as those in our own army and navy.

Eleven graduates and six non-graduates have died in the service.

Two Honor Rolls have been designed by the Freehand Drawing Department, one to contain the names of graduates and the other the names of non-graduates. These are to be placed on either side of the entrance to the Auditorium as permanent records.

In the school office is kept a card catalogue which contains all of these names, with such data as the Committee has been able to collect regarding branch of service, rank, regiment, citations, honors, etc.

SOMERVILLE TEACHERS' ASSOCIATION.

1918.

President, Charles E. Brainard.

Vice-Presidents, } Charlotte A. Norton.
 } Joseph S. Hawthorne.

Secretary-Treasurer, M. Genevieve Smith.

Executive Committee:—

Charles S. Clark, ex-officio.

Ruth Low, High.	George M. Wadsworth, Pope.
Elizabeth J. Mooney, E. Junior.	G. Hortense Pentecost, Edgerly.
Mary L. Bradish, N. Junior.	Margaret A. Orr, Glines.
Helen I. Stearns, W. Junior.	Carrie T. Lincoln, Forster.
Mrs. Blanche G. North, S. Junior.	Elizabeth J. O'Neil, Bingham.
Harry L. Jones, Boys' Vocational.	Frances E. Welch, Carr.
Mary Henleigh Brown, Girls' Vocational.	Helen L. Tuck, Morse.
Louise E. Pratt, Prescott.	Grace E. Packard, Durell.
Martha L. Littlefield, Hanscom.	Alice E. Morang, Burns.
Amy F. Woodbury, Bennett.	Mary S. Richardson, Proctor.
Mary G. Blackwell, Baxter.	Martha R. Taylor, Brown.
Clara M. Burns, Knapp.	Frank W. Seabury, Highland.
Catherine E. Sweeney, Perry.	Octavia A. Stewart, Lowe.
Elizabeth L. Hersey, Cummings.	Bernice Andrews, Cutler.
	Lillian M. Wentworth, Lincoln.

The meetings held under the auspices of this association in the year 1918 were as follows:—

February 13—Address by Mr. John F. Scully, Superintendent of Schools, Brockton, Mass. Subject, "Up to the Minute Teaching."

April 10—Address by Mr. Charles D. Kingsley, Agent of the State Board of Education.

October 19—Combined Meeting with the Somerville Teachers' Club. Address by Prof. Paul Hanus, Harvard. Subject, "Educational Aspects After the War."

December 17—Liberty Sing—Conducted by Prof. Leo Lewis of Tufts College.

SOMERVILLE TEACHERS' CLUB.

Officers, 1918-1919.

President, Mrs. Phebe E. Mathews.

Vice-Presidents, } Miss Annie C. Woodward.
 } Miss Mary L. Bryant.

Recording Secretary, Miss Nona E. Blackwell.

Corresponding Secretary, Miss Gladys L. Swallow.

Treasurer—Miss Mary A. Holt.

Auditor, Miss Mary F. Osborne.

Object.

The object shall be to secure a close union among the women teachers in Somerville; to promote the spirit of mutual helpfulness; to advance professional interests; to create a deeper sense of the dignity of the profession; to unite the interests of the home and school.

Program.

- January 15, 1918—Guest Night—Reception to Miss Margaret E. Slatery, State Board of Education. (Cancelled on account of coal shortage).
- March 5, 1918—War Supper followed by a lecture, "Agricultural Camps," by Mr. Roy W. Hatch, Columbia University. Music by Girls' Glee Club of the High School.
- March 28—Official war pictures of "Camp Sherman," given in Olympia Theatre. Mrs. Carroll Rice, lecturer.
- April 8—Agricultural speakers, High School Hall:—
Mr. Harold Phelps, Waltham Farm Bureau.
Mr. Burbank, Amherst Agricultural College.
- October 19—Professor Paul Hanus—Harvard University:—
"Educational Aspects After the War."
- October 30—Dinner and Reception to Supt. Charles S. Clark. After dinner speaker, State Supt. Payson E. Smith. (Cancelled on account of influenza epidemic.)
- November 21—"Educational Adjustments," Dr. A. E. Winship.

HIGH SCHOOL ATHLETIC ASSOCIATION

Report of Treasurer, January 1, 1919.

Receipts:—

Balance on hand January 1, 1918 . . .	\$375 28	
Baseball games	565 92	
Football games	1,330 63	
Memberships	175 25	
Interest on deposits	1 76	
Gift from Class 1920	13 00	
		<hr/>
		\$2,461 84

Disbursements:—

High School annual dues	\$2 00	
Suburban League dues	5 00	
Travelling expenses	14 50	
Officials	207 00	
Police	151 00	
Advertising and printing	47 75	
Coaching	425 00	
Telephoning	18 95	
Guarantees to teams	435 24	
Miscellaneous	6 71	
Medical attendance	50 00	
Medical supplies	2 50	
War Tax	92 66	
Supplies	338 63	
Repairs at Armory	7 80	
Balance on hand, January 1, 1919 . . .	657 10	
		<hr/>
		\$2,461 84

STATEMENT OF WAR SAVINGS STAMPS PURCHASED BY
PUPILS.

	No. of pupils holding stamps	Amount in dollars
High	989	\$14,368 00
Prescott	69	1,015 00
Hanscom	222	2,522 75
Bennett	54	223 00
Baxter	84	803 00
Knapp	139	762 97
Perry	70	438 75
Pope	244	2,447 75
Cummings	144	1,410 00
Edgerly	433	4,412 50
Glines	342	3,477 50
Forster	100	1,880 00
Bingham	226	1,649 65
Carr	258	*2,500 00
Morse	206	1,302 75
Proctor	221	3,166 75
Durell	64	668 75
Burns	232	2,636 00
Brown	405	5,037 25
Highland	274	2,412 50
Cutler	523	6,200 00
Lincoln	108	1,380 00
Lowe	200	1,771 00
Girls' Vocational	30	325 00
Northern Junior	291	3,906 25
Southern Junior	686	3,431 59
Western Junior	778	8,326 82
Eastern Junior	274	3,345 00
	7,666	\$81,820 53

*Not including Thrift Stamps.

STATEMENT CONCERNING PREPARATORY DEPARTMENT OF THE SOMERVILLE HIGH SCHOOL.

From 1880 to 1895.

Number of graduates of high school.....	959
Number of graduates entering higher institutions	312
Per cent. of graduates entering higher institutions	32.6

During this period there was but one high school, having only two courses, preparatory and general.

From 1895 to 1915.

Per cent. of graduates of preparatory department entering higher institutions	58.7
Colleges fitted for in 1880-1895	6
Colleges fitted for in 1895-1915	14

During this period to 1911 there were two schools, — the Latin School, an exclusively college preparatory course, and the English School, having scientific, preparatory, general, and commercial courses. After 1911, the two schools were united into one, with preparatory, general, commercial, and manual arts courses.

Previous to 1895, Somerville High School sent its graduates to a very restricted number of colleges and was able to train its pupils along very similar lines. Now with the larger number of colleges, scientific, and normal schools, with very divergent lines of preparation entailed, it is necessary to vary the character of preparation for each pupil according to the college or higher school chosen. This necessarily causes great difficulty and extra work when pupils are unsettled in their minds or, as sometimes happens, change their minds several times during their preparatory period at high school.

In 1915, for instance, Somerville High School sent pupils to Boston College, Boston University, Dartmouth, Harvard, Holy Cross, Jackson, Massachusetts Agricultural College, Massachusetts Institute of Technology, Mount Holyoke, Normal, Radcliffe, Simmons, Smith and Tufts.

At the present time, Somerville High School is on the list of schools sending by certificate to Boston University, Dartmouth, Simmons, Tufts, and Normal Schools. Pupils for

all other higher institutions must be prepared to take entrance examinations.

Harvard Record. At Harvard we have continued to have a good record considering the change of plan adopted in 1909. Prior to that year, no pupil could take the preliminary examinations without the approval of the Head Master. This meant that only boys prepared to the satisfaction of the school could try. Now any boy may make the attempt. Naturally poor pupils often undertake to enter Harvard, and failing bring undeserved reflection upon their school. This, however, in spite of the fact that it sometimes brings discredit upon the school, is a step in the right direction as it gives every boy a chance and puts the responsibility on the boy rather than on the school.

Our record at Harvard for the past seven years is as follows:

In 1912. Number of candidates 10

Number passing 5

Record in Senior year of those failing:

No. 1. 4 B's, 12 C's, 4 D's.

No. 2. 6 B's, 13 C's, 3 D's.

No. 3. 5 B's, 22 C's, 5 D's.

* No. 4. 2 A's, 16 B's, 7 C's.

No. 5. 10 B's, 11 C's, 2 D's.

* This boy, under the old plan, would probably have had the approval of the school.

In 1913. Number of candidates 9

Number passing 6

Record in Senior year of those failing:

No. 1. No. 1 of previous year.

No. 2. Attempted examinations at end of Junior year.

No. 3. 8 B's, 12 C's.

In 1914. Number of candidates 15

Number passing 9

Record in Senior year of those failing:

No. 1. 1 A, 10 B's, 11 C's, 1 D.

No. 2. 7 B's, 11 C's, 2 D's.

No. 3. 11 B's, 12 C's, 1 D.

No. 4. 4 A's, 2 B's, 13 C's, 4 D's.

* No. 5. 4 A's, 6 B's, 13 C's.

* No. 6. 2 A's, 13 B's, 8 C's.

* These boys, under the old plan, would probably have had the approval of the school.

In 1915. Number of candidates 5

Number passing 4

Record in Senior year of pupil failing:

No. 1. 2 A's, 6 B's, 11 C's, 2 D's.

<i>In 1916.</i>	Number of candidates	10
	Number passing	9
	Record in Senior year of pupil failing:	
	No. 1. 9 B's, 8 C's, 1 D.	
<i>In 1917.</i>	Number of candidates	4
	Number passing	4
<i>In 1918.</i>	Number of candidates	3
	Number passing	2
	Record in Senior year of pupil failing:	
	No. 1. 10 B's, 6 C's, (fitted for Dartmouth, not Harvard).	

Number of candidates in seven years..	56
Number passing	39
Per cent. of those passing	69.6
Number of failures	17
Number of poor scholars attempting examinations and failing	14

If the figures of the past four years are taken it will be noticed that the percentage of those passing is 86.4, a very creditable showing.

Points of Commendation.

In 1912, two pupils, Reed and Cole, were especially mentioned as exceptionally well fitted in English.

In 1916, Barrett received highest honors in English, German, Mathematics; Carey in Greek, Latin, Mathematics; Gustin, honorable mention in Mathematics.

In 1916, Murray received the Price Greenleaf Scholarship.

In 1917, Enslin, Aronson, Brooks, Mills, and Derby received scholarships.

In 1918, Carey and Barrett received scholarships.

At Radcliffe, Somerville High School has had the honor of presenting two girls in the past three years who passed the highest entrance examinations among those competing, — Ruth Arrington, in 1916, and Dorothy Currie, in 1918.

At Massachusetts Institute of Technology our record has been no less satisfactory.

	No. of Candidates.	Number Passing.
In 1912	7	7
1913	7	6
1914	10	10
1915	11	11
1916	9	9
1917	10	10
1918	7	7
Percentage of those passing.....		98.3

In 1918, Somerville High School received honorable mention in the list of schools whose pupils secured one or more highest ratings in the College Entrance Examination Board. Twenty-three public schools in the state were mentioned, of these Boston Latin School received seven highest ratings, Somerville High School came second with six, Brookline, Cambridge and Lowell High Schools third, with three.

The Preparatory Department of our school was given special attention when the two schools were united in 1911, and many of the strongest teachers in their respective subjects from both schools were assigned to this department. These have all proved their worth and have been faithful and efficient. Heads of departments were appointed to supervise the work, and they have watched diligently over the work of the various years in their respective departments. In addition, a Head of the Course was appointed. Mr. Wilkins, since 1913, has kept in close touch with the colleges and their requirements, with the heads of departments and their work, and especially with the pupils. The pupils in the department have frequently been advised regarding the demands of the various colleges, and innumerable personal interviews have been held, to advise, encourage, and admonish. In fact, every effort has been made to strengthen and uphold the standards of this part of our school, and I am free to state that the Preparatory Department is excellently organized and is running smoothly and efficiently.

STATEMENT OF WORK OF SCHOOL DENTAL DISPENSARY.
For the School Year Ending June 28, 1918.

MONTH.	No. Children Treated.	No. First Appointment.	No. Reappointment.	Teeth Extracted.	No. of Teeth Filled.	No. Cleanings.	No. Having Brush.	No. not Having Brush.	Amount of Fees Collected.	Incidental Expenses.	Treatments.	Novocain.	Examinations
September	65	52	13	39	9	32	53	12	\$8.28	\$2.08	16	1	2
October	148	115	33	95	41	19	128	20	14.95	8.66	32	49	15
November	143	99	44	136	38	13	123	20	17.10	6.28	51	30	11
December	114	90	24	86	29	8	105	9	16.60	4.01	32	31	10
*January													
*February	32	31	1	14	17	2	27	5	3.66	1.93	7	9	0
March	125	106	19	80	23	12	103	22	12.63	11.51	29	44	11
April	130	106	24	93	9	15	104	26	15.00	7.43	46	40	11
May	112	64	48	51	21	8	93	19	18.23	3.90	57	24	7
June													
Total	869	663	206	594	187	109	736	133	\$106.45	\$45.80	270	228	67

*Closed on account of influenza epidemic.

Receipts:—

Cash on hand September 1.....
 From fees.....
 From sale of tooth brushes and powder.....

Expenditures:—

For supplies.....
 Cash on hand June 30.....

COMPARATIVE FINANCIAL STATEMENT.

	1915-1916	1916-1917	1917-1918
Cash on hand September 1.....		\$54.36	\$39.51
From fees.....	\$141.88	144.78	106.45
From sale of tooth brushes and powder.....	132.50	24.96	
	\$274.38	\$224.10	\$145.96
Expenditures:—			
For supplies.....	\$220.02	\$184.59	\$99.28
Cash on hand June 30.....	54.36	39.51	46.68
	\$274.38	\$224.10	\$145.96

STATEMENT OF WORK OF SCHOOL NURSES.

For Year Ending June 27, 1918.

DATE	School or Hospital	No. of Pupils		Treatments in School	Inspections for		PUPILS ESCORTED TO CLINICS												Optician	Corrected Vision	Corrected Hearing	Oper- ations		Contag- ion found in*		Home Visits		Hy- giene Talks		REMARKS
							Eye	Ear	Nose and Throat		*Medi- cal		Surgical		Skin		Dental													
		New	Old		New	Old																New	Old	New	Old	New	Old	New	Old		Tonsils	Adenoids	School	Home	New	Old	School	Home
September.....	Schools Hospitals	57 3	527 102	107	51 6								1		1				5				7	2	27	40	5	3	September: Two cases reported to Attendance Officer. Interviewed mother in school office. Clothing found for two needy children. Arranged for pupil to be examined by specialist. Child with contagious disease found in school. Assisted in medical inspection. Child taken to Psychopathic Hospital for test. Case reported to Board of Health for investigation. Pupils taken to eye clinic, to medical department of Massachusetts General Hospital, to Boston Dispensary. Child fitted with shoe and brace. October: Children taken to Forsyth Dental Dispensary. Assisted in medical inspection. Children taken to Hospital for throat examination, to Boston Dispensary, to Psychopathic Hospital for re-examination. Two truants found on street and reported to Attendance Officer. Four cases reported to Massachusetts S. P. C. to C. Arranged for child to be operated on. November: Assisted in medical inspection. Gave hygiene talks to several classes concerning care of hair and teeth. Took child to Orthopedic Hospital. Assisted mother in securing employment. December: Money given by Day Nursery for clothing for needy children. Gave treatment to three very neglected children. Took child to hospital for scalp treatment. February: Emergency case taken to Forsyth Dental Dispensary for two extractions. Visited several families for Associated Charities. March: Reported case of very much neglected child to Board of Health and to Massachusetts S.P.C. to C. Several children sent to Forsyth Dental for extractions. April: Conference with Associated Charities concerning three needy families. Child taken to Psychopathic Hospital for mental and physical examination. Child taken to hospital for X-Ray treatment. Assisted in medical inspection. Gave hygiene talks on teeth. 15 cases measles found in school. May: Needy family reported to Associated Charities. Assisted in medical inspection. Gave aid to mother through Associated Charities. Visited several homes for Associated Charities. Child sent to Forsyth Dental for operation on tonsils. Child taken to Dispensary for operation for "tongue-tie." Hygiene talks on teeth given to forty-eight classes. Physician sent to home of very sick child. Six children sent to Dental Clinic for treatment. June: Child taken to Psychopathic Hospital for examination; found to be feeble-minded. Assisted in medical inspection of teeth. Hygiene talks on teeth given to eight classes. Four neglected children placed with State Board of Charities. Child at Chardon Street Home given to Massachusetts S.P.C. to C. to take care of. Secured employment for young man with mother and five children to support. Case sent to Forsyth Dental for Wasserman Test. Gave several application cards for summer treatment at Forsyth.	
October	Schools Hospitals	109 14	1127 295	188	469 20	8	10					1	1	1				26	18	7	2		1	2		34	54	34		1
November.....	Schools Hospitals	141 13	1945 541	169	1206 36	6	7								1			20	55	7	6	1	1	2	3	50	74	769		4
December	Schools Hospitals	192 8	686 337	200	236 9	2	3	1	2	1								8	22		1	1	3	1	34	40	15	1		
January	No School																													
February	Schools Hospitals	76 10	264 73	66	30 1				1									22	18			2	2	2	31	39	61			
March	Schools Hospitals	136 20	676 515	161	127 20	1	2		2	4		1		1				36	73	1			23	2	44	85	139	1		
April	Schools Hospitals	124 22	899 446	175	205 11	3	3			3		2	1					28	68	3	4			32	14	36	40	381	5	
May	Schools Hospitals	139 23	925 377	136	168 19	6	4	2		8	1			2				31	79	5	5	2	2	10	9	60	40	105	2	
June.....	Schools Hospitals	111 21	1006 223	139	85 10	4	15			15	2	2						27	57		4	3	3	8		19	30	357		
Total.....	Schools Hospitals	1085 134	8055 2909	1341	2577 132	30	44	3	5	31	4	7	2	4	1			203	390	23	22		9	10	89	62	343	464	1805	17

*Treated by family physician or dentist.

Name		Age		Sex		Occupation		Address	
John	Smith	25		M		Farmer		123 Main St	
Mary	Smith	22		F		Homemaker		123 Main St	
James	Smith	18		M		Student		123 Main St	
Elizabeth	Smith	15		F		Student		123 Main St	
William	Smith	12		M		Student		123 Main St	
Anna	Smith	10		F		Student		123 Main St	
Thomas	Smith	8		M		Student		123 Main St	
John	Johnson	30		M		Teacher		456 Oak St	
Mary	Johnson	28		F		Homemaker		456 Oak St	
James	Johnson	25		M		Farmer		456 Oak St	
Elizabeth	Johnson	22		F		Homemaker		456 Oak St	
William	Johnson	19		M		Student		456 Oak St	
Anna	Johnson	16		F		Student		456 Oak St	
Thomas	Johnson	13		M		Student		456 Oak St	
John	Williams	35		M		Doctor		789 Pine St	
Mary	Williams	32		F		Homemaker		789 Pine St	
James	Williams	29		M		Farmer		789 Pine St	
Elizabeth	Williams	26		F		Homemaker		789 Pine St	
William	Williams	23		M		Student		789 Pine St	
Anna	Williams	20		F		Student		789 Pine St	
Thomas	Williams	17		M		Student		789 Pine St	

IN MEMORY OF CAROLINE G. BAKER,

a teacher in the Clark Bennett School,

WHO DIED APRIL 21, 1918.

"Loving and gentle in all her teaching of little children, frank and firm in her contact with parents, earnest and sympathetic in all her work for the poor,—who can measure the influence of this strong, kindly nature upon all the lives she has touched and strengthened and inspired during a generation of faithful service in our city."

IN MEMORY OF BERTHA A. RAYMOND,

a teacher in the Somerville High School,

WHO DIED SEPTEMBER 21, 1918.

"A rare teacher and a great influence upon the youth of our City.—her loss as a teacher and in the larger life of school and city cannot be estimated.

We live in deeds, not years; in thoughts, not breaths;
In feelings, not in figures on a dial.
We should count time by heart-throbs. He most lives
Who thinks most, feels the noblest, acts the best."

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SUMMARY OF STATISTICS.

1.—POPULATION AND SCHOOL CENSUS.

Population, state census, 1895.....	52,200
Population, United States census, 1900.....	61,643
Population, state census, 1905	69,272
Population, United States census, 1910.....	77,236
Population, state census, 1915	86,854
Children between five and sixteen years of age, April, 1918, by school census	14,811

2.—SCHOOL BUILDINGS.

Number of school buildings in June.....	1918 30
Number of classrooms in use in June.....	370
Valuation of school property	\$2,164,600

3.—TEACHERS.

	*1917	*1918	Change
In high schools	70	70	0
In junior high schools.....	65	108	+43
In grammar schools	137	103	—34
In primary schools	103	101	—2
In kindergartens	8	8	0
Total in elementary schools	248	212	—36
Vocational school for boys	8	6	—2
Vocational school for girls	9	7	—2
Atypical classes	2	3	+1
Cadet teachers	9	2	—7
Special	12	10	—2
Total	423	418	—5

4.—ATTENDANCE FOR YEAR.

	*1917	*1918	Change
Entire enrollment for the year.....	13,967	14,256	+289
Average number belonging	12,770	12,656	—114
Average number attending	11,933	11,798	—135
Per cent. of daily attendance.....	93.7	93.2	—0.5
High school graduates	340	332	—8
Junior High school graduates .....	.....	374	—
Grammar school graduates	528	207	—321

5.—COST OF SCHOOL MAINTENANCE.

	*1917	*1918	Change
Salaries of teachers	\$367,869 15	\$401,457 29	+\$33,588 14
Salaries of officers	8,268 62	9,131 26	+862 64
Cost of books and supplies	29,221 07	33,587 26	+4,366 19
Cost of light	5,428 62	6,966 05	+1,537 43
Cost of janitors' services .	35,717 91	42,081 71	+6,363 80
Cost of fuel	25,487 12	35,839 20	+10,352 08
Total cost of day and evening schools	471,992 49	529,062 77	+57,070 28
Per capita cost	34 91	39 42	+4 51
Cost of high school instruction	83,933 00	84,738 45	+805 45
Per capita cost	47 05	64 64	+17 59

*School year.

6.—MISCELLANEOUS.

	*1917	*1918	Change
Paid for new school buildings	\$94,420 27	\$100,177 02	+\$5,756 75
Repairs and permanent improvements	27,283 00	30,125 56	+2,842 56
Total school expenditures..	593,695 76	659,365 35	+65,669 59
Number of dollars spent to maintain schools out of every \$1,000 of valuation	5 95	6 25	+0 30
Valuation of city	78,921,472 00	84,639,280 00	+5,717,808 00
Number of dollars spent for all school purposes out of every \$1,000 of valuation	7 52	7 79	+0 27

*School year.

Cost of the Schools.

The total amount spent for the maintenance of the schools of Somerville for the school year ending June 30, 1918, is \$529,062.77.

This includes the sums spent for care of school buildings, including janitors' services, fuel, light, and school telephones; the amount paid for salaries of officers, and the amount spent for school supplies; and the sum paid for salaries of teachers.

The expenditures for *care of school buildings* is wholly in charge of the City Government.

The amount paid for janitors is.....	\$42,081 71
The cost of fuel is	35,839 20
The cost of light is	6,966 05

A total cost of	\$84,886 96
The cost per capita	6 71
Cost of repairs	30,125 56

The second important expenditure is wholly under the control of the School Committee and is covered by what is known as the "*School Contingent*" appropriation. The following is the itemized account:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational	Elementary	High and Vocational	Elementary
Officers' Salaries	\$9,131.26				
Office Expenses	3,245.28				
Textbooks.....	7,338.14	\$2,313.47	\$4,835.84	135.00	\$53.83
Stationery and Supplies and Other Expenses of Instruction	20,244.60	10,154.94	9,705.38	\$307.01	77.27
Miscellaneous (Tuition, etc.)...	2,759.24	784.68	1,800.47	141.66	32.43
Total.....	\$42,718.52	\$13,253.09	\$16,341.69	\$583.67	\$163.53

The third, and by far the largest, element of the cost of schools is the sum spent for the *salaries of teachers*. This expenditure is under the control of the School Committee.

The following statement shows the distribution of the sums paid for salaries:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational	Elementary	High and Vocational	Elementary
Supervisors	\$6,635.50	\$852.36	\$5,783.14		
Principals	35,338.75	7,780.62	26,340.13	\$525.00	\$693.00
Teachers	359,483.04	111,295.70	242,090.84	4,039.50	2,057.00
Total	\$401,457.29	\$119,928.68	\$274,214.11	\$4,564.50	\$2,750.00

The *total outlay* for all *school purposes* includes all of the preceding and the sums spent for schoolhouse repairs and new buildings.

The *total outlay* for the school year ending June 30, 1918, is as follows:—

Care	\$84,886 96
Contingent	42,718 52
Salaries	401,457 29
Total for school maintenance.....	\$529,062 77
Paid for repairs	30,125 56
Paid for new buildings	100,177 02
Total for all school purposes.....	\$659,365 35

Each dollar of the sum spent for the support of schools has been divided in the following proportion:—

	1913	1914	1915	1916	1917	1918
Janitors' salaries	\$0.082	\$0.079	\$0.074	\$0.077	\$0.076	\$0.079
Heat and light	0.055	0.060	0.054	0.059	0.066	0.081
Administration	0.018	0.018	0.017	0.017	0.018	0.017
School supplies.....	0.065	0.065	0.067	0.058	0.062	0.064
Teachers' salaries	0.780	0.778	0.788	0.789	0.778	0.759
Total	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

Per Capita Cost. The proper method of comparison of the cost of schools year by year is to consider the sum spent for each pupil in the average membership. In this computation we exclude the cost of evening schools, and the vocational schools. The following shows:—

THE PER CAPITA COST OF DAY SCHOOLS FOR 1917 AND 1918.

	High Schools.			Grammar and Primary Schools.			All Day Schools.		
	1917.	1918.	Change	1917.	1918.	Change	1917.	1918.	Change
Instruction.....	\$47.89	\$65.79	+\$17.90	\$24.62	\$25.16	+\$0.54	\$27.88	\$30.78	+\$2.90
Supplies.....	5.43	7.74	+2.31	1.24	1.39	+0.15	2.15	2.48	+0.33
Care.....	7.52	11.27	+3.75	4.74	6.02	+1.28	4.81	6.34	+1.53
Total.....	\$60.84	\$84.80	+\$23.96	\$30.60	\$32.57	+\$1.97	\$34.84	\$39.60	+\$4.76

Including the cost of maintenance of evening schools, the per capita cost is as follows:—

	1914	1915	1916	1917	1918
Cost of Instruction	\$24 55	\$24 90	\$26 25	\$26 72	\$29 58
Cost of Supplies	1 89	2 03	1 88	2 05	2 40
Cost of Care	4 27	3 92	4 41	4 61	6 09
Total	\$30 71	\$30 85	\$32 54	\$33 38	\$38 07

An examination of these tables shows that we have paid \$17.90 more for the instruction of each pupil in the High School than in 1917, and \$2.31 more per pupil for supplies.

The grammar and primary schools have cost fifty-four cents more per pupil for instruction, and fifteen cents more for supplies.

The amount spent for the school year 1918 was \$6.25, or 30 cents more than was spent in 1917. The amount yielded for each child in the average membership of the schools for 1918, not including the vocational schools, was \$38.07.

Teachers' Salaries.

The salaries paid to teachers in January, 1919, are as follows:—

1 man	\$3,350	4 women	\$1,150
1 man	3,000	1 man, 11 women.....	1,100
1 man	2,350	11 women	1,050
11 men, 2 women.....	2,150	1 man, 23 women.....	1,000
2 men	2,050	201 women	950
1 man	2,000	9 women	1,025
1 man	1,900	1 woman	925
6 men	1,800	15 women	900
1 man	1,700	20 women	850
2 men	1,600	1 man, 13 women.....	800
1 man	1,550	5 women	750
7 men	1,500	4 women	725
1 man	1,450	1 man, 15 women.....	700
5 men, 2 women.....	1,400	10 women	650
2 men	1,300	1 man, 3 women.....	600
1 man, 5 women.....	1,250	2 women	550
1 man, 1 woman.....	1,200		

SIGHT AND HEARING.

The following gives the results of the eye and ear tests:—

Eyes.

	1918	1917	Change
Tested	11,473	11,739	—266
Defective	1,557	1,509	+48
Per cent. defective.....	13.6	12.9	+0.7
Notices sent to parents	950	1,035	—85
Professionally treated	153	205	—52

Ears.

	1918	1917	Change
Tested	12,591	12,435	+156
Defective	182	239	—57
Per cent. defective	1.4	1.9	—0.5
Notices sent to parents	101	159	—58
Professionally treated	13	28	—15

Table 1. — Schoolhouses, January, 1919.

NAME	No. of Classrooms	No. of Sittings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
High School { West	74	1,786	*	Brick	Steam	Fan	\$390,000	1895	8 rooms added 1906
{ East				Brick	Steam	Fan		1871	30 rooms added 1913
Prescott	13	487		Brick	Steam	Fan		1867	
Southworth {	11	356	49,310	Brick	Steam	Fan	139,200	1916	
Knapp	13	622	24,517	Brick	Steam	Gravity	55,500	1889	4 rooms added 1894
Pope	12	578	27,236	Brick	Steam	Gravity	83,600	1891	
Bell	24	797	29,860	Brick	Steam	Fan	138,900	1874	13 rooms added 1918
Edgerly	12	573	24,000	Brick	Steam	Gravity	48,000	1871	{ 4 rooms added 1882
									{ 4 rooms added 1892
Glines	14	628	28,800	Brick	Steam	Gravity	93,400	1891	5 rooms added 1896
Forster {	13	576	30,632	Brick	Steam	Gravity	104,000	1866	6 rooms added 1899
Folsom {	13	293							
Bingham	16	773	35,586	Brick	Steam	Gravity	78,000	1886	{ 4 rooms added 1894
									{ 8 rooms added 1904
Carr	17	745	20,450	Brick	Steam	Gravity	58,600	1898	
Morse	12	473	29,000	Brick	Furnace		59,000	1869	6 rooms added 1890
Highland	12	524	23,260	Brick	Steam	Gravity	71,600	1880	4 rooms added 1891
Carried forward	256	9,211					\$1,319,800		

*Buildings are located on Central Hill Park, which contains 13 1-10 acres.

†Includes home rooms, laboratories, shops, assembly rooms, dental dispensary, etc.

Table 1. (Concluded). — Schoolhouses, January, 1919.

NAME	No. of Classrooms	No. of sittings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
Brought forward.....	256	9,211	.....	.....	.....	.....	\$1,319,800	.....	.....
Hodgkins	14	568	35,034	Brick	Steam	Gravity	103,700	1896	.....
Western	17	577	+	Brick	Steam	Fan	84,000	1917	.....
Cutler	18	783	53,729	Brick	Steam	Fan	108,700	1912	6 rooms added 1915
Bennett	12	436	21,964	Brick	Steam	Gravity	58,000	1902	.....
Hanscom	10	487	16,767	Brick	Steam	Fan	70,500	1897	4 rooms added 1907
Brown	10	487	26,733	Brick	Steam	Gravity	74,600	1901	4 rooms added 1907
Proctor	9	343	*	Brick	Steam	Gravity	44,000	1905	.....
Burns	8	387	16,080	Brick	Steam	Gravity	42,000	1886	4 rooms added 1899
Lowe	8	386	21,650	Brick	Steam	Gravity	53,000	1903	.....
Baxter	6	290	11,000	Brick	Steam	Gravity	37,000	1901	.....
Perry	6	298	46,080	Brick	Steam	Gravity	43,500	1899	.....
Girls' Vocational	7	60	8,850	Wood	Furnace	Furnace	9,000	1911	.....
Boys' Vocational	8	50	30,155	Wood	Furnace	Furnace	59,500	1884	{ Machine shop added 1917 Automobile shop added 1918
Cummings	4	196	11,300	Wood	Furnace	Furnace	14,600	1884	.....
Durell	4	190	13,883	Brick	Steam	Gravity	21,900	1894	.....
Lincoln	4	175	17,662	Wood	Steam	Gravity	20,800	1885	.....
Total	401	14,924	.....	.....	.....	.....	\$2,164,600	.....	.....

*State property. †Land included in City Ledger property.

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1917-18.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total
	Instruction and Supervision.	Supplies.	Care.	
High	\$86,251.32	\$10,142.38	\$14,779.75	\$111,173.45
E. Somerville Jr. High	17,356.09	2,086.80	2,385.26	21,828.15
Winter Hill Jr. High..	19,636.86	1,766.04	2,121.46	23,524.36
W. Somerville Jr. High	22,823.84	3,891.09	2,771.99	29,486.92
Prescott	7,298.50	399.00	2,351.72	10,049.22
Hanscom	10,575.27	553.13	2,047.65	13,176.05
Bennett	11,349.04	809.50	3,207.29	15,365.83
Baxter	6,067.25	280.89	2,239.41	8,587.55
Knapp	14,642.19	770.65	2,937.34	18,350.18
Perry	5,694.53	288.95	1,750.54	7,734.02
Pope	12,567.74	559.97	2,455.62	15,583.33
Bell	11,026.74	492.20	2,082.31	13,601.25
Cummings	3,675.76	351.16	1,831.87	5,858.79
Edgerly	12,374.47	703.77	2,145.89	15,224.13
Glines	15,164.62	556.16	2,633.11	18,353.89
Forster	6,666.11	362.85	2,453.67	9,482.63
Bingham	15,519.45	969.50	2,555.91	19,044.86
Carr	18,137.92	971.66	3,101.30	22,210.88
Morse	11,939.66	731.07	2,778.47	15,449.20
Proctor	6,789.09	271.19	2,044.99	9,105.27
Durell	3,756.88	143.49	1,664.82	5,565.19
Burns	7,137.72	288.43	2,544.29	9,970.44
Brown	11,024.63	848.12	2,101.37	13,974.12
Highland	12,763.95	936.98	2,487.26	16,188.19
Hodgkins	6,577.73	292.76	2,500.91	9,371.40
Cutler	16,753.98	1,158.17	3,140.32	21,052.47
Lincoln	3,793.38	216.60	1,616.74	5,626.72
Lowe	7,520.22	292.81	2,518.64	10,331.67
Atypical	1,903.22	37.39	381.68	2,322.29
Boys' Vocational	8,755.17	1,280.23	1,873.64	11,909.04
Girls' Vocational	7,428.15	346.58	1,825.08	9,599.81
Evening	7,617.07	787.74	1,556.66	9,961.47
Total	\$410,588.55	\$33,587.26	\$84,886.96	\$529,062.77

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1917-18.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$65.79	\$7.74	\$11.27	\$84.80
E. Somerville Jr. High..	42.33	5.09	5.82	53.24
Winter Hill Jr. High...	40.57	3.65	4.38	48.60
W. Somerville Jr. High..	31.70	5.40	3.85	40.95
Prescott	21.34	1.17	6.88	29.39
Hanscom	22.99	1.20	4.45	28.64
Bennett.....	29.55	2.11	8.35	40.01
Baxter.....	29.60	1.37	10.92	41.89
Knapp.....	31.09	1.64	6.24	38.97
Perry.....	24.65	1.25	7.58	33.48
Pope	24.74	1.10	4.83	30.67
Bell	28.57	1.28	5.39	35.24
Cummings	19.87	1.90	9.90	31.67
Edgerly.....	21.90	1.25	3.83	26.98
Glines	23.85	.87	4.14	28.86
Forster.. ..	22.99	1.25	8.46	32.70
Bingham	22.94	1.43	3.78	28.15
Carr.....	26.95	1.44	4.61	33.00
Morse	26.42	1.62	6.15	34.19
Proctor	21.08	.85	6.35	28.28
Durell	23.05	.88	10.21	34.14
Burns	22.38	.90	7.98	31.26
Brown	24.72	1.90	4.71	31.33
Highland	28.11	2.06	5.48	35.65
Hodgkins.....	26.42	1.18	10.04	37.64
Cutler	23.36	1.63	4.40	29.39
Lincoln	25.81	1.47	11.00	38.28
Lowe	22.32	.87	7.47	30.66
Atypical	65.63	1.29	13.16	80.08
Evening	9.96	1.03	2.03	13.02
Grammar and Primary..	25.16	1.39	6.02	32.57
All schools	29.58	2.40	6.09	38.07
Boys' Vocational	175.10	25.60	37.42	238.12
Girls' Vocational	195.48	9.12	48.03	252.63

Table 4.—Annual Cost of Maintaining the Schools.
FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Membership.	FROM SCHOOL APPROPRIATION.		SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.				Total.
		Instruction and Supervision.	School Supplies.	Light.	Heating.	Janitors.	School Telephones.	
1912	11,710	\$306,709	\$30,319	\$5,995	\$15,676	\$30,219	\$512	\$389,431
1913	11,856	320,744	25,877	5,842	16,055	32,939	542	402,092†
1914	12,320	338,587	26,843	6,448	18,952	33,711	624	425,165
1915	12,903	357,581	29,389	5,755	18,366	32,674	213	443,978
1916	13,191	363,948	26,098	6,233	20,197	34,667	.....	451,143
1917	12,770	376,138	29,221	5,429	25,487	35,718	.....	471,993
1918	12,656	410,589	33,587	6,966	35,839	42,063	18	529,062

† \$92.50 included for rental of church for schoolhouse purposes in Ward 7.
For years prior to 1912 see School Report of 1917.

Table 5.—Annual Cost Per Capita of Maintaining Schools.
FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Water, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
1912	\$23 61	\$2 12	\$3 99	\$29 72	\$69,632,540	\$.00556
1913	24 54	1 91	4 18	30 63	71,848,811	.00559
1914	24 55	1 89	4 27	30 71	74,887,800	.00568
1915	24 90	2 03	3 92	30 85	77,153,500	.00575
1916	26 25	1 88	4 41	32 54	79,304,329	.00569
1917	26 72	2 05	4 61	33 38	78,921,472	.00595
1918	29 58	2 40	6 09	38 07	84,639,280	.00625

Table 6. — Amount Spent Annually for all School Purposes.
FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes
1912	35,527	14,163	389,431	439,121
1913	34,866	19,341	402,092	456,299
1914	120,913	19,700	425,165	565,778
1915	9,745	28,212	443,978	481,935
1916	81,184	21,634	451,143	553,961
1917	94,420	27,283	471,993	593,696
1918	100,177	30,126	529,062	659,365

TABLE 7.—POPULATION AND SCHOOL CENSUS.

For School Year 1917-18.

1842	. .	1,013	1900	. .	61,643	1911	. .	78,000
1850	. .	3,540	1901	. .	63,000	1912	. .	80,000
1860	. .	8,025	1902	. .	65,273	1913	. .	81,000
1865	. .	9,366	1903	. .	67,500	1914	. .	85,000
1870	. .	14,693	1905	. .	69,272	1915	. .	86,854
1875	. .	21,594	1906	. .	70,875	1916	. .	88,000
1880	. .	24,985	1907	. .	72,000	1917	. .	90,000
1885	. .	29,992	1908	. .	75,500	1918	. .	91,000
1890	. .	40,117	1909	. .	75,500			
1895	. .	52,200	1910	. .	77,236			

School Census.

Number of children between 5 and 15 years of age, inclusive, April 1, 1918	14,811
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School Registration.

Number of children between 5 and 15 years of age, inclusive, April 1, 1918:—		
In public schools	.	11,588
In private schools	.	2,322
		<hr/>
Total	.	13,910
Number of compulsory school age, 7 to 13, inclusive:—		
In public schools, males	.	4,327
females	.	4,391
		<hr/>
		8,718
In private schools, males	.	870
females	.	891
		<hr/>
		1,761
		<hr/>
Total	.	10,479

Table 7-A — Distribution of Pupils By Ages, April 1, 1918.

GRADE.	AGE.																Total	Above Normal Age	Per cent. Above Normal Age
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Kgn.	145	69	1														215		
1.....	5	808	667	116	14	4											1,614	134	8.30
2.....		15	462	657	174	30	4	1	1								1,344	210	15.63
3.....			43	492	532	199	62	12	5	1							1,346	279	20.73
4.....				33	457	535	223	86	22	4	2						1,362	337	24.74
5.....				1	63	453	443	183	69	18	8	1					1,239	279	22.52
6.....					3	99	465	392	206	63	6	1					1,235	276	22.35
7.....						9	82	349	325	137	29	7			1		939	174	18.53
8.....						1	7	122	336	261	110	14		1			852	125	14.67
9.....							1	16	149	302	210	54	15	1			748	70	9.36
10.....								6	42	196	234	120	30	3		1	632	34	5.38
11.....								1	1	30	122	177	61	17		1	410	18	4.39
12.....										7	60	128	109	48	9	3	364	12	3.30
13.....											3	43	126	95	28	16	311	16	5.14
P. G.....												1	3	8	4	2	18		
Total.....	150	892	1173	1299	1243	1330	1287	1168	1156	1019	784	546	344	173	42	23	12,629		
Under Normal Grade.....				116	188	233	289	282	303	223	155	77	45	22	10	21			
Per cent. under Normal Grade.....				8.93	15.12	17.52	22.46	24.14	26.21	21.88	19.77	14.10	13.08	12.72	23.81	91.30			

Table 8.—Attendance of the Public Schools for the School Year

1917-1918.

Rooms used for Classrooms in June	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in October.	No. Attending in June.
*74	High	1,520	1,311	1,214	92.6	1,486	1,215
14	E. Som. Jr. High.....	466	410	385	94.0	451	368
12	Winter Hill Jr. High.....	543	484	463	95.7	527	447
24	W. Somerville Jr. High...	794	720	682	94.7	752	614
7	Prescott	394	342	312	91.2	336	339
10	Hanscom	526	460	422	91.7	478	443
11	Bennett	429	384	359	93.5	381	383
6	Baxter	243	205	190	92.7	211	213
13	Knapp	527	471	446	94.7	493	466
6	Perry	262	231	212	91.7	243	227
12	Pope	558	508	472	92.9	519	487
11	Bell	440	386	363	94.0	415	365
4	Cummings	229	185	166	89.7	189	198
12	Edgerly	646	565	521	92.2	561	544
13	Glines	727	636	594	93.4	649	647
6	Forster	323	290	273	94.1	302	289
16	Bingham	738	676	618	91.4	689	670
18	Carr	734	673	626	93.0	678	646
11	Morse	492	452	429	95.0	461	433
7	Proctor	348	322	301	93.5	334	316
4	Durell	179	163	148	90.8	167	167
8	Burns	353	319	299	93.7	332	318
10	Brown	492	446	414	92.8	438	445
11	Highland	502	454	431	95.0	458	440
6	Hodgkins	291	249	235	94.4	251	263
17	Cutler	791	713	669	93.8	724	694
4	Lincoln	169	147	134	91.1	204	150
8	Lowe	392	337	315	93.5	341	343
2	Atypical	29	29	25	86.1	30	29
6	Boys' Vocational	70	50	46	91.9	57	46
7	Girls' Vocational	49	38	34	89.5	43	30
370	Total	14,256	12,656	11,798	93.2	13,200	12,235
323	Total for 1916-17.....	13,967	12,770	11,933	93.7	13,109	12,221

*Includes all rooms used for school exercises.

Table 9.—Statistics of High School for School Year September 12, 1917,
to June 27, 1918.

Number of teachers, including head master	70
Number of days school kept	175
Number enrolled	1,520
Average number belonging	1,310.8
Average daily attendance	1,214
Tardinesses	3,002
Dismissals	362
In Class 1921 September	227
June	185
Per cent. of loss	18.5
In Class 1920-B September	451
June	374
Per cent. of loss	17.1
In Class 1920-A September	111
June	98
Per cent. of loss	11.7
In Class 1919-B September	286
June	241
Per cent. of loss	15.7
In Class 1919-A September	85
June	77
Per cent. of loss	9.4
In Class 1918-B September	253
June	223
Per cent. of loss	11.8
In Class 1918-A September	38
February	38
Per cent. of loss	0
Special Students, September	13
June	17
Total, September	1,464
June	1,215
Per cent. of loss	16.3
Number of graduates, male	119
Number of graduates, female	213
Total	332
Average age, male graduates	18 yrs. 4 mos.
Average age, female graduates	18 yrs. 4 mos.
Number entering college	61
Number of graduates entering technical schools	12
Number of graduates entering normal schools	9
Cost of instruction	\$84,738 45
Cost of supplies	9,221 88
Total cost	93,960 33
Per capita cost of instruction	64 64
Per capita cost of supplies	7 03
Total cost per capita	71 67

Table 10. — Pupils by Grades, June, 1918.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.
		Men.	Women.		Boys.	Girls.	Total.	
			Regular.	Assistants.				
High	Special				6	11	17	
"	Thirteenth				106	194	300	
"	Twelfth				122	217	339	
"	Eleventh				143	231	374	
"	Tenth				85	100	185	
	Total	20	49		462	753	1,215	
Junior High	Tenth				138	231	369	
"	Ninth				209	266	475	
"	Eighth				262	323	585	
	Total	10	56		609	820	1,429	
Grammar	Ninth	8	7		84	110	194	
"	Eighth		7		91	113	204	
"	Seventh		24		445	443	888	
"	Sixth		30	1	547	642	1,189	
"	Fifth		28		574	631	1,205	
"	Fourth		31		656	684	1,340	
	Total Grammar.....	8	127	1	2,397	2,623	5,020	
Primary	Third.....		32		687	631	1,318	
"	Second		33	2	660	675	1,335	
"	First.....		34	1	812	756	1,568	1,456
	Total Primary		99	3	2,159	2,062	4,221	
	Total Grammar and Primary.....	8	226	4	4,556	4,685	9,241	
	Kindergarten		4	4	119	90	209	
	Special	2	10		16	20	36	
	Cadets		9					
	Atypical		2		18	11	29	
	Boys' Vocational...	6			46		46	
	Girls' Vocational...		7			30	30	
	Grand Total.....	46	363	8	5,826	6,409	12,235	

Table 11.—Pupils in High, Junior High, and Grammar Schools, 1917-1918.

	High School.	Junior High Schools	Grammar and Primary Schools.	Kinder-gartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment	1,520	1,803	10,551	234	70	49	29	14,256
Average membership	1,311	1,614	9,411	203	50	38	29	12,656
Average attendance	1,214	1,530	8,762	187	46	34	25	11,798
Per cent. of attendance.....	92.6	94.8	93.1	92.1	91.9	89.5	86.1	93.2
Number cases of tardiness	3,002	729	4,475	11	370	344	19	8,970
Number cases of dismissals	362	396	2,057		42			2,857
Membership, October, 1917.....	1,468	1,730	9,662	210	57	43	30	13,200
Membership, June, 1918.....	1,215	1,429	9,277	209	46	30	29	12,235
No. cases corp. punishment.....		1	92					93

Table 12.—Number of Pupils Admitted to Grade 1

SCHOOL.	1915-16		1916	1917
	Sept.	Feb.	Sept.	Sept.
Prescott	45	23	40	49
Hanscom.....	66	20	85	100
Bennett	73	26	72	84
Baxter	31	15	35	32
Knapp	27	14	19	42
Perry	64	12	27	43
Pope.....	36	8	46	51
Cummings	51	13	40	71
Edgerly	26	17	33	45
Glines.....	43	26	57	91
Forster.....	44	33	25	31
Bingham.....	51	25	52	102
Carr	56	21	51	92
Morse.....	61	23	65	67
Proctor	25	16	38	46
Durell.....	23	11	21	45
Burns.....	16	17	59	107
Brown	47	22	70	77
Hodgkins	19	23	41	50
Cutler.....	43	0	73	96
Lincoln	44	18	55	45
Lowe.....	64	77	42	90
Total.....	955	460	1,046	1,456
Grand Total.....	1,415		1,046	1,456

Table 13. — Promotions to High School Grade.

	To 10th (Sophomore) In High School		To 9th (Freshmen) In High School		To 9th (Senior) In Junior High School	
	Promoted	Entered	Promoted	Entered	Promoted	Entered
High	168	153				
E. Somerville Jr. High	79	66	92	70	188	154
Winter Hill Jr. High.....	132	117	131	103	147	133
W. Somerville Jr. High	162	142	240	218	209	185
Knapp			49	27	57	43
Bell			55	44	72	68
Carr			38	28	48	44
Morse			47	40	24	17
Total.....	541	478	652	530	745	644

Table 14.—Comparative Statistics of the Attendance Department for the School Year 1917-1918.

	1917	1918	Change
Number of visits to the schools	649	542	—107
Number of visits to the homes	1,348	1,245	—103
Number of cases investigated	1,472	1,336	—136
Number of cases found to be truancy or absenteeism	308	348	+40
Number of different pupils who were truants or habitual absentees	240	270	+30
Number who were truants for the first time	195	216	+21
Number who were truants for the second time	36	42	+6
Number who were truants for three or more times	9	12	+3
Number of girls who were truants or absentees	45	49	+4
Number of cases of parental neglect of children found and reported to charitable institutions	6	4	—2
Number of cases of removal of children from the custody of parents by order of the court	5	2	—3
Number of visits to mercantile or manufacturing establishments	80	52	—28
Number of minors found to be working without employment certificates	120	121	+1
Number of working certificates investigated	128		
Number of employment certificates issued to boys	528	702	+174
Number of employment certificates reissued to boys	167	501	+334
Number of employment certificates issued to girls	355	480	+125
Number of employment certificates reissued to girls	163	254	+91
Number of educational literate certificates issued to minors over 16 years of age	1,411	1,519	+108
Number of newspaper licenses issued to boys 12 to 16 years of age	143	140	—3
Number of transfer cards investigated	1,427	1,488	+61
Number of truants in the County Training school at the close of the year	17	17	0
Amount paid for board of truants	\$837.56	\$788.13	—\$49.43

Table 14.—(Continued).—Comparative Statistics of the Attendance Department.

For the School Year 1917-1918.

Disposition of truancy and habitual absentee cases:—

Warned and returned to school	176
Transferred to other schools	6
Obtained certificates (14 to 16 years)	26
Left school (over 16 years)	4
Removed from city	19
Brought before court and returned to school	12
Brought before court and sent to Training School	10
Returned to Training School for breaking parole	1
Parents brought before court for keeping children out of school (convicted)	1
Sent to Lyman School	6
Given in charge of State Board of Charity	4
Given in charge of Society Prevention of Cruelty to Children	2
Given in charge of Home for Destitute Catholic Children	1
Given in charge of Home Angel Guardian	1
Given in charge of Working Boys' Home	1
	<hr/>
	270

Table 14-A. — Truancies and Habitual Absenteeism by Ages and Grades.

GRADES.	BY AGES.											Total.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.....		8	2	2								12
II.....	1	7	6	1	3	1	1					20
III.....			3	13	10	3	1		1			31
IV.....				5	17	17	6	1	1			47
V.....					1	19	12	13	2	4		51
VI.....						5	22	18	6	1	1	53
VII.....					1	1	9	30	18	3		62
VIII.....							2	12	15	8		37
IX.....								3	10	4		17
X.....									3	1	2	6
XI.....										1	2	3
XII.....											1	1
Boys' Voc l.									2			2
Ungraded..		3		3								6
Total.....	1	18	11	24	32	46	53	77	58	22	6	348

Table 14-B.—Truants and Habitual Absentees by Schools. 1917-18.

School	No. of Truants
High	9
Prescott	4
Hanscom	3
Bennett	9
Baxter	0
Knapp	21
Perry	0
Pope	24
Bell	12
Cummings	6
Edgerly	35
Glines	8
Forster	1
Bingham	17
Carr	35
Morse	9
Proctor	7
Durell	2
Burns	2
Brown	2
Highland	13
Hodgkins	3
Cutler	4
Lincoln	0
Lowe	2
East Somerville Junior High	22
Winter Hill Junior High	5
West Somerville Junior High	11
St. Joseph's Parochial	39
Boys' Vocational School.....	2
Not attending school; found on street.....	41
Total	348

Table 15. — Attendance in Elementary Evening Schools from October, 1917, to June, 1918.

		Bell.	Morse	Highland.	Total.
Enrolled	Male	227	45	76	348
	Female	79	10	32	121
	Total	306	55	108	469
Ave. membership	Male	86	15	41	142
	Female	39	5	23	67
	Total	125	20	64	209
Ave. attendance.....	Male	67	11	27	105
	Female	31	4	18	53
	Total	98	15	45	158
Per cent. Att. out of No. belonging		78.4	75.0	70.3	75.6
Per cent. Att. out of No. enrolled.....		32.0	27.3	41.7	33.7
Ave. No. of teachers.....	Male	1		1	2
	Female	9	1	3	13
	Total	10	1	4	15
No. of sessions		77	77	77	
Teachers, cost of		\$1,859.00	\$209.00	\$682.00	\$2,750.00
Janitors, fuel, supplies, and light, cost of.....		430.59	276.15	241.98	948.72
	Total	\$2,289.59	\$485.15	\$923.98	\$3,698.72
Cost per pupil per evening..		\$0.237	\$0.315	\$0.187	\$0.23
Cost per evening		29.73	6.30	12.00	48.04
Cost per pupil in ave. membership.....		14.31	24.25	14.44	17.70
Cost per pupil in ave. at- tendance.....		23.36	32.34	20.53	23.41

Table 15. (Concluded).—Evening High School—Season of 1917-18.

	Male	Female	Total
Enrolled	447	336	783
Average membership	235	187	422
Average attendance	160	141	301
Number of teachers	9	10	19
Number sessions		55	
Cost of instruction		\$3,733 00	
Cost of janitors, fuel, supplies and light		1,041 18	
Total cost		\$4,774 18	
Cost per pupil per evening.....		0 205	
Average attendance: October, 516; November, 369; December, 309; April, 171; May, 142.			

Table 16. — Grammar School Graduates.

FOR A SERIES OF YEARS.

Year.	Prescott.	Bell.	Forster.	Morse.	Higland.	Edgerly.	Pope.	Knapp.	Hodskins.	Illness.	Carroll.	Bingham.	Brown.	Butler.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership (graduating.	Entered High School.	Per cent. Entering of those graduating.
1890	54	106	45	56	57										318	6,062	5.24	184	57.86
1891	44	73	41	55	44	39	36								296	6,035	4.90	199	67.23
1892	41	36	75	49	45			39							370	6,525	5.67	225	61.62
1893	40	60	48	63	67	46	36	38							398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32							389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34							374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35							370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25	45						368	7,002	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	27					382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	35	38				408	8,351	5.60	345	73.72
1900	36	45	43	31	43	47	44	34	42	36	33				434	8,689	4.99	317	73.00
1901	34	38	70	43	72	47	43	38	41	35	36				497	8,811	5.64	372	74.80
1902	41	48	61	45	67	46	35	31	32	40	51				481	9,328	5.17	354	73.14
1903	34	45	62	35	65	51	28	34	52	31	47				512	9,739	5.26	367	71.68
1904	31	35	84	46	79	44	36	38	40	36	43				606	10,298	5.88	463	76.40
1905	40	40	74	44	85	47	42	48	61	40	58	31			640	10,209	6.22	474	74.10
1906	35	54	67	44	109	49	44	64	58	62	60	35			725	10,440	6.94	561	77.40
1907	37	62	67	44	126	81	36	56	59	42	58	36	40		742	10,410	7.13	551	74.26
1908	44	51	71	71	88	50	64	66	61	43	66	36	43		741	10,582	7.00	546	73.68
1909	27	59	73	44	95	82	48	70	55	32	57	39	50		743	10,451	7.10	521	70.12
1910	30	53	72	48	96	68	56	80	62	33	59	37	46		805	10,101	7.97	609	75.65
1911	35	69	82	63	93	48	43	82	73	33	43	47	45		781	9,806	7.96	538	68.88
1912	40	75	79	56	90	70	62	79	62	26	43	46	47	39	691	9,961	6.94	533	77.13
1913	41	34	71	44	113	51	39	59	38	28	61	51	47	35	741	10,098	7.32	587	79.21
1914	62	72	66	38	85	65	47	58	26	33	46	58	51	30	789	10,765	7.33	619	78.45
1915	40	61	77	29	105	67	55	70	33	67	55	60	38	34	781	10,998	7.10	599	76.70
1916	53	56	90	46	96	64	55	69	29	36	55		48	36	528	10,652	4.96	357	67.61
1917	.....	94	.....	66	119	.....	.....	67	43	.....	46	.....	.....	.....	207	10,719	1.93	139	67.15
1918	.....	56	.....	55	.....	.....	.....	50	.....	.....	.....	.....	.....	.....	15,677	261,453	5.99	11,396	72.69
	1,059	1,549	1,770	1,424	2,176	1,359	1,057	1,358	992	797	998	509	455	174	15,677	261,453	5.99	11,396	72.69

Table 17. — Attendance Statistics.

FOR A SERIES OF YEARS.

DECEMBER	ENROLLMENT	Average Membership	Average Attendance	Per cent. of Attendance	Number of Tardinesses	Ratio of Tardiness to Average Attendance
1912	13,272	11,710	11,083	94.6	6,307	0.569
1913	13,491	11,903	11,216	94.2	7,354	0.655
1914	13,932	12,320	11,610	94.2	7,380	0.635
1915	14,505	12,903	12,189	94.5	8,000	0.656
1916	14,647	13,191	12,323	93.4	9,373	0.761
1917	13,967	12,770	11,933	93.7	7,325	0.613
1918	14,256	12,656	11,798	93.2	8,970	0.760

Table 18. — Membership, Etc., of High School.

FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1912	11,710	2,023	17.28	296	2.53
1913	11,903	2,081	17.48	296	2.48
1914	11,610	2,111	18.18	273	2.35
1915	12,903	2,258	17.50	311	2.41
1916	13,191	2,288	17.35	348	2.64
1917	12,770	1,973	15.45	340	2.66
1918	12,656	1,520	12.01	332	2.62

**Table 19.—Promotions for School Year Ending June 27, 1918.
Junior High Schools.**

YEAR	On June Promotion List	Promoted to next Grade	Kept Back
I	610	545	65
II	511	486	25
III	406	374	32
Total.....	1527	1405	122

**Percentage of Promotions for School Year Ending June 27, 1918.
Junior High Schools.**

YEAR	On June Promotion List	Promoted to next Grade	Kept Back
I	100	89.3	10.7
II	100	95.1	4.9
III	100	92.1	7.9
Average.....	100	92.0	8.0

Table 19-A. — Promotions for School Year Ending June 27, 1918.
Grammar Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promo- tions during Year.	Promotees Dropped Back after Three Months' Trial.
I	1,598	1,191	98	294	15	...	1
II	1,349	1,108	98	140	3	1	2
III	1,325	1,078	123	112	12	1	3
IV	1,359	1,114	135	108	2	1	1
V	1,216	957	146	109	4	1	3
VI	1,217	864	200	131	22	2	8
VII	918	712	134	69	3	2	1
VIII	218	162	39	17	...	...	1
IX	198	174	15	8	1	1	.....
Total.....	9,398	7,360	988	988	62	9	20

Percentage of Promotions for School Year Ending June 27, 1918.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promo- tions during Year.	Promotees Dropped Back after Three Months' Trial.
I	100	74.5	6.1	18.4	1.0	.....	.....
II	100	82.1	7.3	10.4	0.2	.....	0.1
III	100	81.4	9.3	8.4	0.9	.....	0.2
IV	100	82.0	10.0	7.9	0.1	.....	.....
V	100	78.7	12.0	9.0	0.3	.....	0.2
VI	100	71.0	16.4	10.8	1.8	0.1	0.6
VII	100	77.5	14.6	7.5	0.3	0.2	.....
VIII	100	74.3	18.0	7.7	.....	.....	.....
IX	100	87.9	7.6	4.0	0.5	0.5	.....
Average...	100	78.3	10.5	10.5	0.7	.....	0.2

Table 20. — Resignations of Teachers, 1918.

SCHOOL.	Teacher.	Resignation Took Effect	In Service
High	Charlotte A. Norton	June 30,	4 years 4 mos.
"	Frank M. Hawes	" "	39 "
"	S. Thomas Hall	" "	8 "
"	Charles A. Dickerman	" "	2 "
"	Ellen S. Patten	" "	4 "
"	M. Genevieve Smith	" "	6 mos.
"	Helen F. Lyon	" "	3 "
"	Gladys S. Jennison	" "	7 "
"	Mary L. Norton	October,	9 mos.
East Somerville Junior High	Veronica McQuillian	June 30,	5 "
"	Anna J. Dolan	" "	4 "
Winter Hill Junior High	Edith E. Neylan	" "	4 "
"	Ethel V. Chisholm	" "	2 "
"	Louise V. Richardson	October,	3 "
"	N. Irene Ellis	June 30,	2 "
West Somerville	Florence C. Bowen	Nov. 29,	3 "
"	Augusta H. Bergin	June 30,	4 "
"	S. Ellen Brown	June 30,	11 "
"	M. Eva Warren (on leave of absence)	June 30,	15 "
"	Mary E. Stiles	" "	2 "
Bennett	Harriet A. Hills	June 30,	2 "
Edgerly	May E. Berry	January,	4 mo.
Glines	Peggie A. Richardson	June 30,	2 mos.
Carr	Inez Prentiss	" "	35 "
"	Hazel McMillan	" "	44 "
"	Bernard B. Patten	Dec. 30,	31 "
"	DIED	June 30,	1 "
"	Caroline G. Baker	" "	5 "
"	Bertha A. Raymond	April,	2 "
"	"	February,	6 "
"	"	April 21,	21 "
"	"	September 21	18 "

Table 21. — Teachers Elected in 1918.

School.	Teacher	Coming From	Salary	Service Began
High	Edith H. Bradford	Barre, Vt.	\$950	September, 1918
"	Margaret E. Ford	Danbury, Conn.	950	" "
"	Cornelia D. Pratt	Charleston, Me.	900	" "
"	Bernice O. Newborg	Barre, Vt.	800	" "
"	B. Phoebe Abbott	Somerville	800	October, 1916
"	Ruth S. Woodworth	Not teaching	700	September, 1918
"	Cleo A. O'Donnell	Everett	1,000	" "
"	Albert O. Plantinga	Not teaching	1,450	" "
East Somerville Junior High	Alice M. McNally	Somerville	600	" 1917
"	Veronica McQuilian	Arlington Heights	600	April, 1917
"	Velma B. Strout	Turners Falls	850	September, 1918
"	Olive E. Whittier	Tamton	850	" "
"	Hazel W. Ruggles	Topsfield	800	" "
"	Helen B. Ryan	Revere	750	" "
"	Mary A. Hickey	Kingston	700	" "
Winter Hill Junior High	Lucy E. French	Somerville	550	" 1917
"	Dorothy A. Chapin	"	700	" "
"	Clare B. Sweeney	"	650	" "
"	Frances D. Bryant	Not teaching	650	" 1918
"	Hazel M. Cushing	Bridgewater	900	" "
"	Gladys E. Teele	Pennsylvania	850	" "
"	Ruth C. Harrington	Dartmouth	800	" "
West Somerville Junior High	Augusta H. Bergin	Somerville	850	October, 1916
"	Blanche Preston	Not teaching	850	November, 1917
"	Miriam E. Priest	Boston	700	September, 1917
"	Edith M. Nickerson	Milford, N. H.	800	" 1918
"	Ralph E. Farnsworth	Central Falls, R. I.	1,300	" "
"	Mae W. Conant	Somerville	850	December, 1916
"	Grace M. Sanders	"	650	September, 1917
"	Geneva C. Tobey	"	650	" "
"	Gertrude E. Tynan	"	650	" "

Table 21. (Concluded) — Teachers Elected in 1918.

SCHOOL.	Teacher	Coming From	Salary	Service Began
West Somerville Junior High	Marcella M. Garrick	Somerville	600	September, 1917
" " "	William S. Franklin	Not teaching	1,200	September, 1918
Junior High, Vinal Avenue	Annette B. MacKnight	Quincy	950	September, 1918
" " "	Clarisse L. Tirrell	Avon	850	" "
" " "	E. Marie Burehell	Hartford, Conn.	800	" "
" " "	Katherine Read	Woodsville, N. H.	700	" "
Pope	C. Edith Taylor	Somerville	600	1917
Edgerly	Myrtle M. Irwin	" "	650	October, 1916
Glines	Alice C. Blodgett	" "	750	May, 1917
Bingham	May B. Thompson	Concord, N. H.	750	January, 1918
" "	Ethel M. Gross	Somerville	550	September, 1917
" "	Barbara E. Drummey	Maynard	750	April, 1918
" "	M. Gertrude McCarthy	Somerville	600	September, 1917
Carr	Mabel R. Ingham	" "	700	October, 1912
" "	Margaret M. Brennan	" "	600	September, 1917
" "	Alice M. Cumming	" "	600	" "
Morse	Louise F. Deady	" "	600	January, 1916
Brown	Maude E. Abbott	Malden	875	March, 1918
Boys' Vocational	Phillip J. Hefferman	Not teaching	1,100	September, 1918
" "	Roy R. King	" "	1,300	March, 1918
Special (Physical Training)	Alma Porter	Reading	750	April, 1918

Table 22.—Leave of Absence of Teachers.

Ellen S. Patten, from March 1 to June 30, 1918.
 Augustus B. Tripp, from October 1 to June 30, 1919.
 Hattie M. Baker, for school year 1918-19.
 Francis A. Ryan, from September 1 to January 1, 1919.
 Mary L. Guyton, for school year 1918-19.
 Ida M. Record, for school year 1918-19.
 Walter W. Newcombe, from September 1 to February 1, 1919.
 Ethel V. Chisholm, for school year 1918-19.
 George H. Lusk, from May 1 to January 1, 1919.
 Melvin T. Carver, from September 1 to March 1, 1919.
 Eva G. Hardy, from November 1 to June 30, 1919.
 Frances L. McGann, from September 1 to June 30, 1919.
 Blanche E. Thompson, for school year 1918-19.
 Cora E. Crawford, for school year 1918-19.
 Annie H. Hall, from May 1 to June 30, 1918.
 Gertrude W. Leighton, from February 1 to June 30, 1918.
 Marion P. Crawford, from April 1 to June 30, 1918.
 Clarence W. Dickey, from June 1 to January 1, 1919.

Cadets.

Catherine E. Giles

Helen A. Moran

Table 23.—Transfers of Teachers.

Teachers	From	To
Gladys L. Swallow	H. S. to E. S. Jr. High	
Anna J. Coll	E. Som. Jr. High	Jr. H., Vinal Ave.
Charlotte Holmes	E. Som. Jr. High	Jr. H., Vinal Ave.
Joseph A. Ewart	W. Hill Jr. High	Asst. Supt. Sch.
Gertrude Chaffin	W. Hill Jr. High	High
F. Gertrude Perkins	W. Hill Jr. High	High
Dorothy A. Chapin	W. Som. Jr. High	W. Hill Jr. High
Lydia A. Jones	W. Som. Jr. High	High
Mary L. Abbott	Prescott	Carr
Hazel N. Friend	Prescott	Carr
Mary A. Whitney	Prescott	Morse
Julia M. Riordan	Bennett	Atypical Class
John S. Emerson	Knapp	W. Hill Jr. High
Minnie A. Holder	Knapp to E. S. Jr.	W. Hill Jr. High
N. Theresa McCarthy	Knapp	Jr. H., Vinal Ave.
Clara B. Sackett	Knapp	Jr. H., Vinal Ave.
Edith Hersey	Knapp	W. Som. Jr. High
Florence G. Hopkins	Knapp	W. Som. Jr. High
Marion F. Orne	Knapp	W. Som. Jr. High
Clara B. Parkhurst	Knapp	W. Som. Jr. High
Olivia H. Norcross	Knapp	Brown
Edith French	Pope	Jr. H., Vinal Ave.
Emma J. Kennedy	Pcpe	Jr. H., Vinal Ave.
George M. Wadsworth	Bell	Jr. H., Vinal Ave.
Eva R. Barton	Bell	Pope
Lillian E. Haskell	Bell	Carr
Julia A. Simmons	Bell	Carr
Mabel T. Totman	Bell	Cutler
M. Eunice Young	Bell	Cutler
Alice L. Davis	Bell	Jr. H., Vinal Ave.
Ada G. Macdonald	Bell	Jr. H., Vinal Ave.

Table 23. (Continued). — Transfers of Teachers.

Rena S. Hezelton	Bell	Jr. H., Vinal Ave.
Blanche G. North	Bell	Jr. H., Vinal Ave.
Esther L. Small	Bell	Jr. H., Vinal Ave.
Cora J. Demond	Forster	Glines
Anna E. McCully	Forster	Jr. H., Vinal Ave.
May B. Thompson	Bingham	W. Hill Jr. High
Susie L. Luce	Carr	E. Som. Jr. High
Marie T. Smith	Carr	Jr. H., Vinal Ave.
Leila L. Rand	Carr	Jr. H., Vinal Ave.
Mary B. Soule	Carr	Jr. H., Vinal Ave.
Grace T. Merritt	Carr	Jr. H., Vinal Ave.
Clara D. Eddy	Carr	W. Som. Jr. High
Alice L. Grady	Carr	W. Som. Jr. High
Mae W. Conant	Morse	W. Som. Jr. High
Sophia C. Mague	Highland	Jr. H., Vinal Ave.
Catherine A. Burden	Hodgkins	Highland
May V. Powell	Hodgkins	Cutler
Katherine E. Fox	Hodgkins	Cummings
Genieve R. Barrows	Hodgkins	W. Som. Jr. High
Flora A. Burgess	Hodgkins	W. Som. Jr. High
Lilla E. Mann	Cutler	Jr. H., Vinal Ave.
Josephine G. Nicholson	Special Teacher	W. Som. Jr. High
Arthur E. Gordon	Boys' Voca.	Jr. H., Vinal Ave.
Theresa E. Morrison	Girls' Voca.	E. Som Jr. High

Table 24. — Number of Teachers.

FOR A SERIES OF YEARS.

YEAR.	High School.	Junior High Schools.	Grammar Schools.	Primary Schools.	Special Teachers.	Assistants not in Charge of Room.	Men.	Women	Total.
1912	66‡	.....	168	84*	22	9	40	309	349
1913	68‡	.....	166	91*	28	12	39	326	365
1914	75‡	.....	167	99*	30	20	44	347	391
1915	76‡	.....	172	100*	31	15	45	349	394
1916	77‡	.....	189	101*	30	15	46	366	412
1917	70‡	65	136	102*	33	17	49	374	423
1918	70‡	108	103	104*	28	5	49	369	418

*Including four kindergartners.

‡Including secretary.

Table 25. — Books Authorized for Use, 1918.

For High School.

As Text-Books.

Foundation English — The Expression of Ideas,
Macdonald — B. H. Sanborn & Co.

New Modern Illustrative Bookkeeping, Introductory Course,
Rittenhouse, Williams and Rogers Series — American Book Co.

For High and Junior High Schools.

As Text-Books.

Junior Latin Book, Rolfe & Dennison Allyn and Bacon

For Junior High Schools.

As Text-Books.

Les Malheurs de Sophie, Bement,Benj. H. Sanborn & Co.

For All Schools.

As Reference Books.

Speaking and Writing English, Sheridan, Benj. H. Sanborn & Co.

Table 26. — HIGH SCHOOL.

LIST OF GRADUATES.

February 1, 1918.

Asterisk before name indicates that the pupil is graduated
"with honors."

Sophia Aronson	Louise Bertha Margarthe Stern
*Elizabeth Mary Baxter	Margaret Mary Thompson
Helen Allegra Boyd	Anna Marion Wright
Anna Whitfield Coaker	Fred Sawin Bryant
Ethel Mae Carroll	John Burke Carr
Helen Elizabeth Copithorne	Amos Stocker Coates
Helen Catherine Dinan	Joseph Gleason Crowley
Dorothy May Dunning	Edwin Paul Collins
Ruth Laura Ellis	Charles David Frizzell
Margaret Olive Fenton	David Henry Hill
Mary Eleanor Filadoro	Albert Lappin
Lillian Alice Foote	Thomas Joseph McGrath
*Adelaide Furlong	Channing Litchfield Parker
Ruth Evelin Johnson	Maurice Charles Pollard
Myrtle Locke	Rodney Harland Shattuck
*Esther Williams Knight Maynard	Eugene Francis Sullivan
Tina Annunziata Ravagni	Laurence Fulmer Sutcliffe
Lillian Evelyn Rubenstein	George Dewey Tolman
Mildred Virginia Saunders	Russell Van Beuren Nye

The June graduation exercises of the High School occurred on
Tuesday, June 25, 1918.

ORDER OF EXERCISES.

GUY E. HEALEY, Chairman of the School
Committee, Presiding.

Diplomas will be presented by Charles W. Eldridge, Mayor of
Somerville.

1. OVERTURE—"The Three Captains".....Herman
High School Orchestra, Sooren Elmassian, Leader.
2. PRAYER—Rev. George E. Soper, D. D.
Pastor of the Prospect Hill Congregational Church.
3. SINGING—"Lift Up Your Heads".....Handel
Graduating Class.
4. ESSAY—"The Red Triangle."
Bertha Kerner

ORDER OF EXERCISES. — (Continued).

5. VIOLIN SOLO—"Meditation" from Thais.....Massenet
6. ESSAY—"The Bonfire of Nations."
Parke D. Appel
7. SINGING—"Song of Deliverance".....Coleridge-Taylor
Graduating Class.
8. ADDRESS TO GRADUATES
Hermon C. Bumpus, LL. D., President of Tufts College.
9. SINGING—"America, the Beautiful".....Ward
Graduating Class.
10. PRESENTATION OF DIPLOMAS TO GIRLS
11. SINGING by Graduating Class in honor of 307 graduates who are
in the service of our county.

[Tune: "America."]

God bless our noble men,
Send them safe home again,
God bless our men!
Make them victorious,
Patient and chivalrous,
They are so dear to us—
God bless our men!

12. PRESENTATION OF DIPLOMAS TO BOYS
13. SINGING—"The Star Spangled Banner"
14. POSTLUDE—"Defend America"Hadley
Singing under the direction of James P. McVey, Supervisor of Music
in the Public Schools.

LIST OF GRADUATES.

* Graduated with honor.

† Died April 16, 1918.

Blanche Andelman
Grace Anna Anderson
Dorothy Lincoln Ashman
Dorothy Marie Babcock
Grace Idella Beeden
Emily Evangeline Bennett
*Ruth Elna Lillian Berggren
Louise Agnes Bertwell
Arleine Frances Blake
Ellen Agnes Blood
*Dorothy Crocker Blood
Martha Catherine Boggs
*Gladys Elizabeth Booker
Ruth Edna Boothby
Elsie May Bowker
Ella Marion Bowman

Estelle Corinne Bowman
Grace Mary Brine
Marion Elizabeth Brown
Charline Frances Buck
Vida Dorothy Burhart
Margaret Veronica Burke
Thelma Lane Burns
Inez Irene Burton
Althea Burwell
Annie Elizabeth Campbell
Margaret Catherine Campbell
Alberta Frances Caswell
Mabel Florence Caterino
Eloine Lura Clements
Bridie Anne Coakley
Christine May Cole

- Marion Elizabeth Collins
 Mary Veronica Corbett
 May Lucille Cordiero
 Corinne Florence Corey
 *Dorothy Grace Currie
 Grace Cecelia Dardis
 Dorothy Ann Deacon
 Florence Lowe Dennis
 Helena Alice Dillon
 Alice Mae Donahue
 Madeline Mary Donahue
 Grace Adelaide Downs
 Olive Dunton
 Lillias Jeane Durning
 Ruth Earle
 Laura Mildred Edmands
 Augusta Ellingsen
 Gladys Marie Elliott
 Frances Helen Elsner
 Angela Felix
 *Goldie Fine
 Ruth Viola Fisher
 Ruth Gladys Flanagan
 Marjorie Cynthia Fogg
 Ella Louise Foley
 Mona Elizabeth Foster
 *Clara Louise Fuller
 Anna Fulton
 Mary Beatrice Gaudet
 Ruth Elizabeth Gibby
 Molly Goduti
 Edith Hobart Goss
 Thelma Shaw Gray
 Helen Winifred Grow
 Elizabeth Hutchinson Grush
 Marjorie Hammond Grush
 Reina Prichard Hadley
 Margaret Hailwood
 *Eleanor Hall
 *Beunice Celeste Hamilton
 Clarice Lea Hamlin
 *Blanche Willis Harding
 Edna Gertrude Harney
 Margaret Agnes Healy
 Theresa Frances Heavern
 Margaret Theresa Hession
 Cora Helen Hodgkins
 Mildred Frances Horan
 Evelyn Ayer Horsman
 Amy Ethel Hughes
 Dorothy Leona Jacobs
 Lena Jefferson
 Astrid Josephine Johnson
 Ethel Christine Johnson
 Joanna Margaret Johnson
 Eunice Pauline Jones
 *Bertha Kerner
 Annie Kiley
 Anna Frances Kuhn
 Elsie Maria Lacey
 *Esther Bates Lacount
 Anna Gladys Leal
 Gladys Ellen Leavitt
 *Ruby Alberta Loth
 *Cecile MacDonald
 Doris MacDonald
 Katharine Frances MacDonald
 Hazel May MacGregor
 Grace Dorothea Mack
 Katherine Frances Mahoney
 Beatrice Evelyn Marston
 Edna Josephine Martin
 *Marjorie Maxwell
 Anna Grace McAuley
 Kathryn Virginia McGoldrick
 Marion Grace McGowan
 Margaret Catherine McKinnon
 Helen Josephine McLaughlin
 Florence Elizabeth McNeill
 Gladys Ethelyn Merrill
 Melba Ethel Mersereau
 Alice Edna Mills
 Blanche Helen Mills
 Nina Hortense Moore
 Dorothy Romanis Morris
 Marian Achsah Morris
 Christine Estelle Murphy
 *Helen Neal
 Margaret Neal
 *Eleanor Vita Nemser
 *Beulah Mae Newell
 *Dorothy Robbins Northrup
 Florence Nora O'Brien
 Marie Louise O'Brien
 Eleanor Rita O'Lalor
 Mary Elizabeth O'Shaughnessy
 *Ida Paly
 Edna Irene Parker
 Marjorie Estella Partridge
 *Mildred Gertrude Pestell
 Alice Winship Peters
 Mabel Josephine Pigott
 Louise Minerva Pitcher
 Vera Pitts
 *Dorothy May Porter
 Azerlea Somes Pray
 Dorothy Ellouise Pray
 *Hermine Kennedy Price
 Emily Louise Pride
 *Lucille Mae Prior
 Frances Olive Richardson
 Marjorie Mae Risdon
 Winona Maxine Roberts
 Flora Louise Robitaille
 Mary Bancroft Robson
 Dorothea Madeline Rohwedder
 Ethel Florence Rudd
 Ada Gertrude Sanders

- Jane Christine Sandin
 *Beatrice May Savage
 Catherine Mary Scanlan
 Christine Anna Schelbach
 Almarinde Eva Scigliano
 Edna Mae Scriven
 Ethel Louise Shaw
 Irene Marjorie Sheehy
 Lillian Gertrude Shepard
 Elsie Henrietta Sibley
 Ruth Mary Skilton
 *Dorothy Charlotte Small
 Hazel Lavinia Smith
 Hazel Marion Smith
 Marguerite Mae Smith
 Grace Adams Stack
 Marion Anastatia Stubbs
 *Gladys Mary H. Sullivan
 Helma Swanson
 Dorothy Helen Tarbox
 Elizabeth Dorothy Tay
 Dorothy Davis Thorne
 Beatrice Edna Towle
 Ruth Gertrude Trefry
 Edna Blanche Tuttle
 Elizabeth Josephine Van Ummersen
 Inez Jane Varney
 Mildred Elizabeth Vorce
 Doris Wadman
 Helen Wadman
 Edith Corinne Walker
 Mary Agnes Walsh
 *Mary Carroll Walsh
 Muriel Arline Wardrobe
 Margaret Wentworth
 Eva Theo Jennie Westlund
 *Flavilla Gladys Whitcomb
 Isabelle Beatrice White
 Irma Whiton
 Madeline Mary Williams
 Doris Yeaton
 *Parke Dinwiddie Appel
 *Clarence Darling Ash
 Joseph Eugene Beaver
 George Walter Bell
 *Arthur Laurence Bennett
 William Herbert Bingham
 John Patrick Brennan
 Samuel Bronstein
 Carl Henry Brown
 Lyman Rice Brown
 Albert Roxborough Cameron
 John Timothy Canniff
 Philip Wetherby Card
 *Lawrence Warren Coddington
 Charles Henry Conlon
 William James Conway
 Lawrence Herbert Cook
 *Hollis Heath Coyle
 Herbert Manning Crowley
 Harold Christopher Crumby
 Ralph Fuller Curtis
 Donald Rutherford Davison
 George Jefferson Donahue
 Clinton Reed Dondale
 Sidney Freeman Dornan
 Floyd Locke Drake
 Robert Brown Durkee
 Earle Marsh Edgerton
 Raymon Washington Eldridge
 John Edward Ellis
 Sooren Elmassian
 Earle Frederick Evans
 John Elmer Fisher
 Anthony Albert Fraites
 Bert Franklin Fuller
 *Maurice Franklin Garrett
 James Gilbert
 Everett Woodworth Goss
 Philip Robert Grant
 Russell Freeman Greenough
 Richard Moore Guilderson
 Charles Harold Guile
 *Herbert Coleman Ham
 John William Hanlon
 Paul Tarpay Hanlon
 Redmond Joseph Hanlon
 James Wallace Harvey
 Harry Walter Higgins
 David Henry Hill
 Louis Melbourne Hirshson
 Edward Sawyer Hodgkins, Jr.
 *Reginald Newton Holman
 Chester Arthur Hopkins
 Thomas Joseph Hubbard
 Harold Jackson
 Carl Erick Johanson
 John Dennis Kelley
 Khorain Kolligian
 Andrew Leighton Marchant
 Oliver Arthur Marchant
 Anthony Matarese
 Joseph Anthony McCarthy
 William Joseph McGrath
 Ralph Herbert McQuinn
 George Henry Milliken
 Chester Arthur Moore
 William Howes Moore
 †James Granville Morrison
 Robert Joseph Muldoon
 Woodworth Northey Murray
 Robert White Newton
 Frederick Willis Noyes
 Leander Wendell Perron
 Andrew Phillips
 Charles Pierce
 Frederick Watson Pierce, Jr.

Joseph Francis Reardon	Daniel Francis Sullivan
Thomas Edward Reardon	John Driscoll Sweeney
John Donald Robertson	Kenneth Marshall Tebbetts
Samuel Henry Rossman	Thomas Reed Tuttle
*Alexis Mauritz Russell	Thomas Everett VanIderstine
Aram Benjamin Sarkisian	Grant Emerson Wallace
Walter Francis Sharkey	William Hannon Walsh
Henry John Shea	Isadore Waranow
Philip Sherman	Charles Joseph Ward
Alvin Sloane	Clayton Carpenter Westland
George Edward Smith	Kenneth Webster Whiting
Irving Byfield Smith	Myer Yavner
Norman Frederick Sterling	George Felton Young
James Henry Stevenson	
Total Number of Graduates, 294.	Boys, 103; Girls, 191.

JUNIOR HIGH SCHOOL GRADUATES.

Junior High School graduations occurred in the school buildings on June 24:—

East Somerville Junior High.

John Aloise	Viola A. Harrington
Alice Elizabeth Ayers	Ruth Mildred Hayes
Pearl Ismay Barnes	Phyllis Ava Howard
Helen C. Bensaia	Pearl Kerner
Frank Blanche	Maybelle Louise Logan
George Rogers Blunt	John William MacDonald
John P. Bowe	Jessie Louise McLean
Helen Evelyn Brett	Mary M. R. Mahoney
Gladys Marion Brookings	Marion R. Marshall
Lillian Hazel Brown	Madeline Anna Mayall
Leo J. Callahan	Theresa A. McCarthy
Mary Eleanor Agatha Caiman	Frank Joseph McCormick
Malcolm K. Campbell	Phyllis McDermod
Mildred Elizabeth Campbell	Donald McFarlane
Gertrude Marion Chapin	Leonado D. P. Milano
Fred J. Coffey	Mary Elizabeth Moran
Margaret Josephine Cotter	Watson Morrison
Mildred Nona Crumby	Gladys Lillian Murley
Robert Franklin Davis	Maynard Nickerson
Mildred Ripley Davis	Frederick Arthur Noyce
Joseph Knowlton Dennis	Margaret Agnes O'Donnell
Ruth Dennis	Francis H. Pedrazzi
Mabel Dix	Helen E. Pettes
Irving Edelstein	Mary V. Powers
Edith Olive Elliott	Bertha Price
Ruth O. Elliott	Agnes Witherell Randall
Ruth Matilda Engelhardt	Roy J. Reiff
Guertin J. Fay	Phyllis Mae Ricker
James H. Finley, Jr.	Mabel Elizabeth Robinson
Marguerite Evelyn Flanagan	Doris Freeman Rudd
Madeline Flynn	Maud Vesta Russell
J. Elzear Giroux	Benjamin Dixon Sawin
Louise Gertrude Haley	James V. Scotti

John Hugh Scully
 Ethel Marion Shirley
 Laura Rita Simmons
 Edith Mary Simonds
 Joseph C. Sullivan
 Winifred Mae Sullivan
 Madeline E. Taylor
 Ruth Alice Tobin

Edna May Tuttle
 Esther Upton
 Grosvenor L. Wadman
 Seth Low Weeks
 Henry Weinberger
 John J. Weldon
 Alice Elizabeth Williams
 Stella M. Wilson

Winter Hill Junior High School.

Edna Adams
 Edith Marion Akerley
 Edith A. Anderson
 Waltie B. Anderson
 Robert Baker
 Eugene Russell Banks
 Claude Arthur Bean
 Doris E. Beaudry
 Gladys V. Bennett
 Saul Biller
 Edith Mertie Blake
 John A. Brennan
 J. George Brennan
 Nelson Perry Case
 Susie Chapman
 H. Elmer Christie
 Gussie Cohen
 Arthur F. Collins
 Cecelia M. Collins
 Henry Roland Conley
 Alice M. Conrad
 Annie Luella Cook
 Edra Crawford Cox
 Joseph C. Crescio
 Dorothy Pauline Cronin
 Edward W. Cudmore
 James E. Day
 Harrison Gilchrist Dodge
 Ruth Marion Edgerly
 Eric Lawrence Erickson
 Gustaf E. Erickson
 Mildred Doris Farrar
 Mary Feretti
 Drusa M. Fielder
 Francis M. Fielder, Jr.
 Harold Matthew Fields
 Hermon A. Fleming, Jr.
 W. Fred Fletcher, Jr.
 Robert K. Foy
 Herbert W. French
 Alma N. Fulton
 Mabel Elizabeth Gavei
 Frances Claire Geaton
 Albert Gould Gillmore
 Norman C. Glassman
 Geraldine V. Godfrey

Julia Goduti
 Harold L. Gonzales
 Margaret K. Gorman
 Olive I. Goudie
 Vera M. Grove
 Louise Jeanette Gullion
 James Lowell Ham
 William P. Hanley
 Gladys Eleanore Harrow
 Grace Henchey
 Louise B. Heron
 Francis Cornelius Hession
 Helen Gertrude Hession
 Bernice Marion Hicks
 Albert C. Horton
 Arthur G. Hughes
 Thomas W. Hughes
 Emma M. Hurford
 Lillian Beatrice Johanson
 A. Evelyn Kaulback
 Veronica V. Kelley
 Daniel Kelliher
 Doris Y. Kemp
 Annie Irena Kimball
 Marion Ladd
 Louis Levine
 Francis C. Loan
 John Edward Lomasney, Jr.
 Katherine T. Lombard
 Thomas J. Lyons
 Harry G. MacDonald
 H. Jean MacFarlane
 James MacIntyre
 J. Harold MacKenzie
 Charles E. Marble
 Frank J. Marble
 Albert Ernest Mardon
 Vivien Marquedant
 Kenneth Charles Martin
 Mary Helen Martin
 Elizabeth G. McCormack
 James H. Maguire
 Samuel A. Mendel
 Georgia Frances Merriam
 John S. Morris
 Veronica M. Morrissey

John G. Murphy
 Josephine E. Murphy
 Arthur E. Newell
 Elizabeth C. Nichols
 Grace Elizabeth O'Brien
 Margaret H. O'Meara
 Helen Frances O'Rourke
 Carolyn B. Oxnard
 Helen V. Palmer
 Mary Lillian Palmer
 Donald S. Peggs
 Charles Platt
 Mildred F. Reardon
 Carlton Clifford Reed
 C. Royal Ross
 C. Donald Rundle
 Everett W. Saville
 Frank C. Sexton
 Marie Emelynn Simmons
 Charles I. Smith
 Winifred N. Steeves

Louise Stockbridge
 Gladys G. Stone
 Irving Emerson Stone
 Irving S. Stone
 Katherine Taber
 Bertha Elsie Tarpey
 Prescott Ellis Tulloch
 Flora L. Walker
 Mary F. Wall
 William Francis Walsh
 Robert S. Way
 Lillian G. Wells
 Olivette A. Wells
 Elmer G. Westlund
 Muriel A. White
 Frances Josephine Williams
 Gertrude I. Williams
 Mary A. Williams
 Grace H. Wilson
 Clifford William Woods
 Everett Warren Young

West Somerville Junior High School.

Aitken, Leonore Anna
 Aldham, Alice E.
 Allen, Sarah Elizabeth
 Austin, Edward T.
 Bacon, Bernard Leroy
 Baker, Harvey J.
 Baldwin, Richard H.
 Ball, Katharine Louise
 Belcher, Evelyn Mildred
 Benson, Ethel Sumner
 Berry, Andrew Campbell
 Bertwell, John Edward
 Black, Mildred Louise
 Bourgress, Juliette Carolyn
 Bowlby, Marjorie Ruth
 Boyd, Frances
 Brine, Martha Gladys
 Brown, Albert Samuel
 Brown, Penrose K.
 Brownell, Phyllis Louise
 Buck, Katharyn
 Buckley, Evangeline Ruth
 Bucknam, Margaret Ellen
 Burnham, Maude Frances
 Burnham, Susie Etta
 Burns, Rachel Evangeline
 Byrnes, Charles Edward
 Cahoon, Ruth Ainsley
 Callahan, William Henry
 Cameron, Ella Jane
 Cameron, Wilhelmina M.
 Campbell, Dorothy Elizabeth
 Carpenter, Ethyl Lillian
 Casassa, Augustus Cyrus
 Chipman, Jr., Charles F.

Chipman, Jennie
 Chute, Marion I.
 Clement, Armin G.
 Cole, Marjorie Mae
 Copeland, George R.
 Cowen, Helen M.
 Cowick, Marion Doris
 Creighton, Marjorie
 Cross, Raymond A.
 Crowley, Paul Revere
 Cruwys, Laura Mabel
 Cunha, Jesse Alexander
 Danforth, Alma Marguerite
 Cuthbert, Catherine Elizabeth
 Danforth, Marshall S.
 Dates, Marion E.
 Davis, Madeline Marie
 Dole, Theda Louise
 Dolliver, Mildred M.
 Donahue, Jr., Edward Joseph
 Downey, Virginia Rita
 Downs, Elmer Kenneth
 Dromgoole, Florence E.
 Dunbar, John Curtis
 Eames, Thomas H.
 Egge, Ramona G. H.
 Farr, Gordon Willard
 Fenton, Mary Gertrude
 Fontana, Rena C.
 Freethy, Shelby L.
 Garrod, John Edward
 Gelinas, Alice I.
 Gilkey, Warren B.
 Grimes, Dorothy Bullard
 Grover, Mabel Louise

Gunnison, H. Claire	Milliken, Elmer Frederick
Harriman, Lena	Mitchell, Jr., Oliver Warren
Harrington, Mildred Lillian	Moore, Harvey
Hatch, Dorothy Mildram	Murray, Francis M.
Hawkesworth, Lena F.	NeRay, Doris L.
Hayes, Henrietta Louise	Newell, Mattie T.
Hayes, Mary Evelyn	Newton, William Allen
Head, Clarence F.	Ninde, Eleanor Mae
Hedlund, Gustav Arnold	Olson, Signe Mildred
Holmberg, Walter A.	Owens, Clarence Joseph
Holmes, Bernice Helen Monica	Packard, Mae Anita
Honnors, Jr., John P.	Paulson, Thora I.
Hopkins, G. Elberne	Pike, Eleanor Shaw
Horrell, James Arthur	Pitts, Edward Howard
Hoxie, Janice A.	Powell, Wallace K.
Hunt, Rea Francisca	Reed, Jr., Everett A.
Johnson, Paulina E.	Ricard, Alleine M.
Jones, Augustus Freeman	Rideout, Edward Harrison
Jones, Gladys Merriam	Robillard, Annie Margaret
Jones, Lewis B.	Rood, Ruth M.
Jones, Marion Kathryn	Sawyer, Ethel May
Josephson, Irene Victoria	Saxton, Isabelle Eileen
Kearns, Margaret J.	Settles, John Clarke
Kelley, Sylvester Baker	Shea, Charles M.
Lang, George W.	Sheldon, Emily Hortense
Lantz, Genevieve E.	Silva, Irene Emelia
Lappin, Ruth	Simpson, Winnifred Ursulle
Larson, Dagmar Elizabeth	Smith, Jr., Albert F.
Laurie, Andrew Shephard	Smith, Harry Stanley
Laye, Gladys Ann	Smith, J. Arthur
LeDrew, Elizabeth E.	Smith, LeRoy N.
Lima, John Broaders	Sparrow, Ida May
Lothrope, Earle Thurston	Spence, Dorothy Whittaker
Lowe, Elizabeth Ruth	Stevens, Harold Elmer
Lowe, Thomas	Sweet, Beatrice
MacGaw, Phyllis E.	Taylor, Joseph Howard
MacSween, Philip A.	Thies, Raymond
McCausland, Hazel May	Thurston, Vera
McCobb, Edith Bess	Traphagen, Irma Price
McTaggart, Jean	Truesdale, Clarence Newman
Macdonald, Marion Florence	Truesdale, Richard Eugene
Macdonald, Ronald Boland	Walsh, Richard H.
Mack, Beatrice Evelyn	Ware, Audrey E. H.
Marshall, Margery Frances	Warren, George Churchill
Megathlin, George Everett	Watson, Doris Madelene
Miller, Donald Hayes	Witham, George Lindroff

Table 27. — VOCATIONAL SCHOOL GRADUATES.

Vocational School for Boys.

Frederick Copeland	Leon Tremblay
Philip Healey	Emerson Brooks
Thomas Callahan	Sumner Vose
Wilbur Peterson	Chester Aaron
James McGahan	Ernest Bearisto
Wesley Taylor	John Morris
Stephen Quinn	Greenville Taylor
John McGilley	

Vocational School for Girls.

Marion Boynton	Clara Edith Murray
Florence Estelle Dobson	Ruth Irene Powers
Alice Ethel M. Francis	Helen Gladys Priebe
Alice Anna Gostanian	Florence Corinne Smith
Martha Cowgill Hirst	Audrey Tobin
Mary C. Linehan	Edith Gertrude Wanamaker
Emma Elizabeth Lundgren	Adeline Dorothy Witherspoon
Olive Mary Moore	

GRAMMAR SCHOOL GRADUATES.

Grammar school graduations occurred in the several grammar school buildings on June 24:—

Knapp School.

Mabel Louise Ardito	Catherine Elizabeth Wiggins
Mary Christinia Andersen	Antoinette S. Wojtulewicz
Angelina Berman	Charles H. Boyd
Adelaide Boggs	Leslie Joseph Bradley
Helen Bratton	William Robert Bryans
Evelyn Marie Casey	Frans N. Carlson
Elizabeth Cooper	Warren Francis De Bay
Aurora Scott Edwardes	James Francis Glynn
Carita M. Farrell	Warren T. Gullage
Doris May Ferguson	Henry M. Howard
Lena E. Ferretti	Stanley William Howard
Martha Lucinda Gethin	Albert Joseph Kirchner
Hazel Davis Gilmore	J. William Korman
Anna Grue	Samuel Kratmen
Grace V. Hicks	Alvin Clifton Marchant
Arline Georgia Hubbard	Patrick J. McCarthy
Anna Gertrude Jones	Joseph Walter McRae
Mary Cecilia King	Harold Millan
Nellie Mildred Mackay	Harold Joseph Murphy
Annie Isabelle Moody	Arthur J. Noone
Sadie Catherine Murphy	John Joseph O'Neill, Jr.
Agnes Margaret Norton	John M. Reynolds
Mary Agnes O'Neill	Louis Siegel
Jessie Florence Reno	Maurice Paul Sheehan
Ruth Estelle Reynolds	Cornelius Joseph Sullivan

Luther V. Bell School.

Elizabeth Carter Ashton	Jeannette Carolyn Crosby
John H. Bowman	Albert John Doherty
Harold J. Breen	Ethel Louise Dunne
Irene Marie Callahan	Bradford J. Edgar
Ida Bronstein	John Henry Ellison
Arthur Stuart Cameron	William Henry Gilliatt
John William Campbell	Hazel Lillian Harlow
Filomena Virginia Cipriano	Edith Mae Harmon
Sydney Joseph Cohen	Alf N. Hedberg
Clarence Alexander Conway	Ruth M. Hunt

Doris Marie Irwin
 Eileen Melissa Kinsley
 Ruth Elizabeth Leavitt
 Rose Deborah Lipkind
 Frank L. Lounsbury
 Howard S. MacDonald
 Ronald T. MacGillivray
 Jackson Wilbur Martin
 Alice Loretta McGrath
 George A. Merrill
 Elizabeth A. Metcalf
 Doris Valentine Moore
 Jeremiah Joseph Moriarty
 Charles Gerry Nichols
 Grace G. Olin
 Charles Chandler Parkhurst
 Winslow H. Pierce
 Lillias Mae Pretty

Gerald D. Ring
 Anna Mary Ronan
 Julia Agnes Ronan
 Olive Dorothy Savary
 Mary Alice Scanlan
 George A. Sharkey
 James Albert Sharkey
 Alfred Elton Sibley
 Mary Alice Sliney
 Ruth Smith
 Katherine R. Spooner
 Albert Winters Sweeney
 Grace Louise Thompson
 Gertrude Helena Tracey
 Evelyn 'Agnes' Turnbull
 Roy Turner
 Gladys May Wellington
 L. Marion Young

Carr School.

Francis D. Bennett, Jr.
 John J. Bloomer
 Robert F. Buckley
 James D. Colbert
 William M. Curley
 Alfred J. DePadua
 John R. Donovan
 Brian J. Dunn
 Elsie L. Estabrook
 Huldah B. Galley
 John Griffin
 Marie Louise Hampton
 Joseph B. Hanlon
 Axelina V. Johanson
 Dorothy A. Jones
 Catherine C. Kelleher
 Dorothy P. Kenney
 Marie P. Kenney
 Mary D. Kilty
 Helena R. Lincoln
 Josephine G. Luurtsema
 Mary A. McNamara
 Margaret F. McQueeney

Anna M. Magnusson
 John R. Mahler
 Agnes Mongan
 Margaret R. Moran
 Kathryne H. Morgan
 Mary T. Motherway
 Frances H. Murphy
 Irene T. Murphy
 Ruth W. Nesbitt
 George W. Noyes
 Joseph B. Purtell
 Frank J. Reidy
 Francis P. Roche
 Mary V. Roche
 Alice C. Russell
 Kamilla E. Stromme
 E. Leola Strout
 Catherine T. Sullivan
 Henry A. Thiesfeldt
 Anastasia Thornton
 Marion E. Tosi
 James T. Urbati
 Claire M. Walsh

Morse School.

Terresa Ballantine
 Ida Rose Baruffaldi
 Mary A. Berra
 Olive A. Buckley
 Ruth A. Collins
 Catherine W. Douglas
 F. Ethel Foley
 Zabelle K. Giragosian
 Dorothy Gordon

Thomas J. Fleming
 M. Leo Golden
 Maynard R. Gregory
 James A. Griffin
 Bernard P. Harkins
 Alfred Hurwitz
 Charles M. Knight
 Russell L. Letson
 John C. Malloy

Lillian Hasselgren
Catherine Heath
Bertha M. Hurd
Anna E. Keating
Edith E. Larson
Mildred A. MacDougall
Hazel R. MacLaughlin
Grace E. Mannion
Catherine R. McCarthy
Edna G. Merritt
Elizabeth F. Murphy
Dorothy M. Sprague
Anna V. Sullivan
Margaret E. Toomey
Sada May Tyler
Catherine M. Zambenardi
Paul J. Anderson
Leo C. Begley
Edwin R. Buckley

Russell S. Martin
Frank E. McCarthy
John J. McCarthy
James S. McKenzie
John G. Nocivelli
Henry J. O'Connell
Harry E. Rice, Jr.
Edward F. Spering, Jr.
William Stevens
Mary R. Coradi
Frank A. Molesini
Vernon R. Wilder
Daniel J. Gearty
Leo J. Donohue
Andrew Pike
Marion A. Meserve
Ruth C. Meserve
Charles Kerr, Jr.

Table 28.—Organization of School Board, 1919.

School Committee.

HERBERT CHOLERTON	.	.	.	.	.	.	.	Chairman
DANIEL H. BRADLEY	.	.	.	.	.	.	.	Vice-Chairman

Members.**EX-OFFICIIS.**Term Expires
January

CHARLES W. ELDRIDGE, Mayor,	47 Highland road	1920
ENOCH B. ROBERTSON, President Board of Aldermen,	87 Highland rd.	1920
WARD ONE.		
JAMES J. RUDD,	46-A Franklin street	1920
DR. WINNIFRED P. DAVIS,	125 Pearl street	1921
WARD TWO.		
DANIEL H. BRADLEY,	19 Concord avenue	1920
CHRISTOPHER J. MULDOON,	88 Concord avenue	1921
WARD THREE.		
ALFRED L. WEST,	69 Avon street	1920
OSCAR W. CODDING,	21 Pleasant avenue	1921
WARD FOUR.		
EDGAR F. SEWALL,	281 Broadway	1920
FRANK H. HOLMES,	22 Walter street	1921
WARD FIVE.		
HARRY M. STOODLEY,	283 Highland avenue	1920
MRS. BLANCHE E. HERBERT,	56 Dartmouth street	1921
WARD SIX.		
PAUL S. BURNS,	191 Summer street	1920
WILLIAM M. MORRISON,	97 Rogers avenue	1921
WARD SEVEN.		
FRANK E. PORTER,	43 Ossipee road	1920
HERBERT CHOLERTON,	94 College avenue	1921

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

Assistant Superintendent of Schools.

JOSEPH A. EWART.

Residence: 11 Bigelow street.

Office hour: 3 o'clock on school days.

Superintendent's office force:—

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

H. Madeline Kodad, 1067 Broadway.

Ethel G. Carvell, 29 Minnesota avenue.

Board Meetings.

January 27.	April 28.	September 29.	December 26.
February 24.	May 26.	October 27.	January 2, 1920.
March 31.	June 30.	November 24.	
8:15 o'clock.			

Table 28.—Organization of School Board, 1919.—Concluded.

Standing Committees, 1919.

NOTE.—The member first named is chairman.

District I.—Rudd, Dr. Davis, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Muldoon, Coddington.

KNAPP, PERRY, BAXTER.

District III.—West, Coddington, Dr. Davis.

POPE, CUMMINGS.

District IV.—Sewall, Holmes, Mrs. Herbert.

EDGERLY, GLINES.

District V.—Stoodley, Mrs. Herbert, Sewall.

FORSTER, BINGHAM.

District VI.—Burns, Morrison, Stoodley.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII.—Porter, Cholerton, Burns.

HIGHLAND, CUTLER, LINCOLN, LOWE.

High School.—Bradley, West, Dr. Davis, Holmes, Stoodley, Morrison, Cholerton.

Finance.—Stoodley, Rudd, Bradley, Coddington, Sewall, Burns, Cholerton, Eldridge, Robertson.

Text-Books and Courses of Study.—Muldoon, Dr. Davis, West, Sewall, Mrs. Herbert, Morrison, Porter.

Industrial Education.—Holmes, Rudd, Muldoon, West, Stoodley, Burns, Porter.

School Accommodations.—Porter, Coddington, Rudd, Bradley, Holmes, Mrs. Herbert, Morrison, Eldridge, Robertson.

Teachers.—Cholerton, Bradley, Dr. Davis, Coddington, Burns.

Playgrounds and School Hygiene.—Dr. Davis, Muldoon, Sewall, Mrs. Herbert, Morrison.

Rules and Regulations.—Coddington, Muldoon, Porter.

TABLE 29.—TEACHERS IN SERVICE, JANUARY, 1919.

Name and Residence			
HIGH SCHOOL.			
Central Hill.		Salary.	Began Service.
John A. Avery, Head Master, 22 Dartmouth Street		\$3.350	1895
Everett W. Tuttle, Vice-Head Master, 62 Highland Avenue		2,350	1895
Frank H. Wilkins, Master, 93 Raymond Avenue		2,150	1906
John L. Hayward, Master, 242 School Street		2,000	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands		2,050	1901
William W. Obear, Master, 86 Belmont Street		2,050	1906
George M. Hosmer, Sub-Master, 13 Arlington Street		1,800	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton		1,800	1906
John M. Jaynes, Sub-Master, 89 Oxford Street		1,800	1901
Guy C. Blodgett, Sub-Master, 16 Monument Street, W. Medford		1,800	1910
Arthur N. Small, Sub-Master, 11a Harvard Street		1,700	1916
Fred W. Carrier, Sub-Master, Wilmington		1,550	1915
*Augustus B. Tripp, Sub-Master, 67 Wallace Street		1,650	1909
Irving P. Colman, Sub-Master, Greenbush		1,400	1915
Stephen H. Mahoney, Sub-Master, 10 Oxford Street		1,800	1914
Albert O. Plantinga, 150 West Newton Street, Boston		1,450	1918
Lester W. Dearborn, Sub-Master, 61 Lowden Avenue		1,400	1914
George E. Pearson, Sub-Master, 325 Highland Avenue		1,400	1914
Cleo A. O'Donnell, 37 Clark Street		1,000	1918
A. Marion Merrill, Sub-Master, 2 Madison Street		1,400	1895
Helen L. Follansbee, Sub-Master, 40 Vinal Avenue		1,400	1900
Frances W. Kaan, Assistant, 133 Central Street		1,250	1882
Mrs. Lena Gilbert, Assistant, 7 Kingston Street		1,100	1892
Harriet E. Tuell, Assistant, 40 Vinal Avenue		1,250	1899
Elizabeth Campbell, Assistant, 40 Greenville Street		1,250	1902
A. Laura Batt, Assistant, 2 Madison Street		1,250	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington		1,250	1895
Clara A. Johnson, Assistant, 177 Central Street		1,150	1897
Elziabeth H. Hunt, Assistant, 223 Newbury Street, Boston		1,100	1908
Blanche S. Bradford, Assistant, 163 Summer Street		1,100	1902
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge		1,100	1908
Mrs. Lucy I. Topliff, Assistant, 57 Cypress Street, Brookline		1,150	1914
Eudora Morey, Assistant, 121 St. Stephen Street, Boston		1,050	1874
Ella D. Gray, Assistant, 147 Walnut Street		1,000	1901
Ruth Tousey, Assistant, 114 Professors Row		1,000	1904
Grace Gatchell, Assistant, 48 Vinal Avenue		1,050	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge		1,150	1908
Edith L. Hurd, Assistant, 125 Central Street		1,050	1910
Julia T. Connor, Assistant, 59 Church Street		1,050	1910
Esther Parmenter, Assistant, Lynnfield Centre		1,000	1911
Annie C. Woodward, Assistant, 2 Madison Street		1,150	1906
Alice A. Todd, Assistant, 82 Munroe Street		1,000	1913
*Hattie M. Baker, Assistant, 24 Sunset Road		950	1911
Mary F. Osborne, Assistant, 67 Boston Street		1,050	1911
Ella W. Bowker, Assistant, 2 Hillside Avenue		1,050	1911
Florence L. McAllister, Assistant, 23 Wallace Street		1,000	1913
M. Belle Preston, Assistant, 84 Packard Avenue		1,000	1914
Laura R. Cunningham, Assistant, 62 Highland Avenue		1,000	1914
Ruth A. Davis, Assistant, 15 Evergreen Avenue		1,000	1914
Mary L. Johnston, Assistant, 71 Bonair Street		1,050	1914
Bessie N. Page, Assistant, 51 Putnam Street		1,000	1911
F. Gertrude Perkins, 58 Thurston Street		1,000	1906

*Leave of absence.

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.	Salary.	Began Service.
Julia A. Haley, Assistant, 88 Prospect Street	\$900	1913
Mary C. Smith, Assistant, 117 Prospect Street	1,000	1916
Florence Towne, Assistant, 147 Highland Avenue	950	1916
Gladys L. Swallow, Assistant, 15 Pleasant Avenue	900	1916
Alfreda Veazie, Assistant, 193 Linden Street, Everett	850	1916
Helen M. Stevens, Assistant, 308 Central Avenue, Needham	1,050	1916
Jean H. Congdon, Assistant, 12 Mellen Street, Dorchester	950	1916
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue	900	1916
B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury	800	1916
Ruth E. Low, Assistant, 58 Central Street	1,000	1913
Irene C. Ritchie, Assistant, 15 Willoughby Street	900	1912
Lydia A. Jones, 40 Vinal Avenue	1,000	1916
Margaret E. Ford, 32 Dana Street, Cambridge	950	1913
Edith H. Bradford, 272 Summer Street	900	1913
Mrs. Cornelia D. Pratt, 16 Austin Street	900	1918
Bernice O. Newborg, 47 Brent Street, Dorchester	800	1918
Mrs. Ruth S. Woodworth, 48 Teele Avenue	700	1918
Gertrude W. Chaffin, 4 Copeland Terrace, Malden	900	1916
*Margaret M. Kneil, Librarian, 58 Central Street	475	1916
Mabell M. Ham, Clerk, 41 Boston Street	950	1906

*Part-time.

EASTERN JUNIOR HIGH SCHOOL.

Pearl Street.

Samuel A. Johnson, Master, 91 Central Street	\$2,150	1916
Francis A. Ryan, Vice-Principal, 15 Walnut Street	1,500	1913
Walter W. Newcombe, Sub-Master, 67 Thurston Street	1,400	1917
Elizabeth M. Warren, 109 Highland Avenue	1,025	1897
Sarah H. Christie, 45 Pennsylvania Avenue	950	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	950	1909
Pertie I. Gray, 28 Broadway	950	1917
†Ida M. Record, 188 Central Street	850	1899
Edith L. Laycock, 10 Franklin Street	950	1913
Susie L. Luce, 21 Francesca Avenue	950	1891
Elizabeth J. Mooney, 168 Summer Street	950	1904
Catherine Heagney, 32 Sewall Street	950	1912
Mary A. Hickey, 41 Sever Street, Charlestown	750	1918
Elma Isaac, 32 Richardson Street, Brighton	500	1918
Velma B. Strout, 36 Francesca Avenue	900	1918
Theresa Morrison, 174 Broadway	950	1912
Hazel W. Ruggles, 20 Hawthorne Street, Roxbury	850	1918
Helen B. Ryan, 71 Prospect Street	800	1918
Mrs. Ellen H. Coughlan, 37 Brastow Avenue	700	1916
Alice M. McNally, 50 Church Street, Watertown	700	1917
†Mary L. Guyton, 336 High Street, Medford	850	1916
Mrs. Constance H. Scherer, 11a Vail Court, Cambridge	950	1917
Kathinka Fessman, 1126 Boylston Street, Boston	1,100	1912
Olive E. Whittier, 45 Pennsylvania Avenue	900	1918

†Leave of absence.

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence			
SOUTHERN JUNIOR HIGH SCHOOL.			
	Vinal Avenue.	Salary.	Began Serv- ice.
George M. Wadsworth, Master,	Whitman	\$2,150	1912
Arthur E. Gordon, Sub-Master,	45 Columbus Avenue	1,500	1918
Melvin T. Carver, Sub-Master,	17 Hubbard Avenue, Cambridge	1,400	1917
Alice L. Davis,	40 Vinal Avenue	1,100	1895
Clara B. Sackett,	91 Summer Street	950	1891
Mrs. Blanche G. North,	25 Columbus Avenue	950	1893
Mrs. Gertrude W. Leighton,	159 Mill Street, Abington	950	1895
Grace T. Merritt,	10 Charnwood Road	950	1897
Marie T. Smith,	7 Woodbridge Street, Cambridge	950	1898
Lilla E. Mann,	50 Curtis Street	950	1902
Mrs. Mary B. Soule,	39 Walnut Street	950	1902
Leila L. Rand,	43 Norfolk Road, Arlington	950	1906
Rena S. Hezelton,	48 Lawrence Street, Medford	950	1909
N. Theresa McCarthy,	9 Centre Street, Woburn	950	1909
Edith L. French,	31 Vinal Avenue	950	1912
Emma J. Kennedy,	15 Pleasant Avenue	950	1912
Charlotte A. Holmes,	24 Cambria Street	950	1899
Ada G. Macdonald,	43 Babcock Street, Brookline	950	1914
Esther L. Small,	17 Pleasant Avenue	950	1914
Anna J. Coll,	65 Newton Street	700	1916
Anna E. McCully,	12 Francis Street	650	1916
Sophia C. Mague,	1766 Washington Street, Auburndale	950	1917
Ellen M. Burchell,	51 Avon Street	850	1918
Annette B. MacKnight,	45 Sawyer Avenue	1,000	1918
F. Antoinette Pratt,	58 Central Street	800	1918
Katherine E. Read,	7 Newman Way, Arlington	750	1918
Clarisse L. Tirrell,	51 Avon Street	900	1918

NORTHERN JUNIOR HIGH SCHOOL.
Sycamore Street and Evergreen Avenue.

John S. Emerson, Master, 3 Preston Road	\$2,150	1894
George H. Lusk, Vice-Principal, 382 Mass. Ave., Lexington	1,500	1916
Joseph S. Hawthorne, Sub-Master, 60 Heath Street	1,600	1915
Arthur J. Marchant, Sub-Master, 110 Bartlett Street	1,500	1914
Mary I. Bradish, 112 Magoun Avenue, Medford	950	1899
Emma G. Blanchard, 146 Massachusetts Avenue, Boston	950	1902
Mrs. Mina P. Bickford, 216 Park Street, Medford	950	1903
Mary F. Mead, 35 Kidder Avenue	950	1905
M. Edna Merrill, 228 Broadway	950	1909
Anna R. Walsh, 27 Avon Street	800	1914
May A. Daly, 52 Adams Street	950	1915
Mary T. Gurvin, 604 Broadway	700	1916
Dorothy A. Chapin, 11 Mystic Street	800	1917
Lucy E. French, 60 Adams Street	650	1916
Clare L. Sweeney, 15 Wesley Park	750	1917
Frances D. Bryant, 425 Lebanon Street, Melrose	700	1918
Hazel M. Cushing, 82 Bromfield Road	950	1918
Catherine E. Giles, 5 Bradbury Avenue, Wellington	400	1918
Ruth C. Harrington, 26 Oak Street	850	1918
Gladys E. Teele, 915 Broadway	900	1918
Mary C. Fox, 28 Linden Street	400	1918
Florence R. Gallagher, 16 Otis Street, Medford	700	1918
May B. Thompson, 459 Broadway	900	1918
Minnie A. Holden, Union Square Hotel	950	1906

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.			Began
WESTERN JUNIOR HIGH SCHOOL.			
Holland Street.		Salary.	serv- ice.
Arthur L. Doe, Master, 27 Spruce Street, Malden		\$2,150	1896
James S. Thistle, Vice-Principal, 26 Packard Avenue		1,500	1917
John J. McLaughlin, Sub-Master, 84 Inman Street, Cambridge		1,500	1916
William S. Franklin, 202 Harvard Street, Medford		1,200	1915
Ralph E. Farnsworth, Sub-Master, 26 Glenwood Ave., Camb.		1,300	1918
Edith W. Emerson, 135 Central Street		1,025	1896
Sarah E. Pray, 58 Liberty Avenue		950	1877
Clara B. Parkhurst, 22 Highland Avenue		950	1889
Flora A. Burgess, 3 Crescent Hill Avenue, Arlington		950	1894
Alice S. Hall, 135 Central Street		950	1896
Edith F. Hersey, 287 Medford Street		950	1899
Clara D. Eddy, 164 Central Street		950	1900
Annie G. Smith, 59 Maple Street, Malden		950	1901
Mary L. Bryant, 41 Mason Street		950	1903
Genieve R. Barrows, Winthrop Chambers, Cambridge		950	1905
Florence M. Hopkins, 65 Chandler Street		950	1907
Elsie M. Ross, 38 Westland Avenue, Boston		950	1908
Isabelle M. Brunton, 33 Walnut Street		950	1910
Katherine A. Breen, 81 Avon Street		950	1912
L. Alice Grady, 24 Cambria Street		950	1912
Elizabeth R. Henderson, 12 Curtis Avenue		950	1912
Marion F. Orne, 43 Fairmount Avenue		950	1912
Helen I. Stearns, 106 College Avenue		950	1916
Stella Bucknam, 319 Highland Avenue		†330	1917
Mrs. Mae W. Conant, 24 Forest St., Lexington		900	1917
Marcella M. Garrick, 295 Lowell St.		650	1917
Josephine G. Nicholson, 368 Highland Ave.		850	1917
Blanche Preston, 84 Packard Ave.		950	1917
Miriam E. Priest, 9 Willoughby St.		800	1917
Grace M. Sanders, 131 Main St., Malden		700	1917
Mrs. Edith M. Nickerson, 60 Dudley St., Medford		850	1918
Geneva C. Tobey, 43 Chelsea St., Everett		700	1917
Gertrude E. Tynan, 15 Dana Terrace, Watertown.		700	1917
Mabel C. Whitaker, 75 Walnut St.		900	1917
† Part time.			

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence			Began Service.
VOCATIONAL SCHOOL FOR BOYS (Day).			
Davis Building, Tufts Street.		Salary	
Harry L. Jones, Principal, 137 Powder House Blvd.		\$2,800	1914
Nehemiah E. Gillespie, 28 Worcester Sq., Boston		1,600	1911
Charles A. Kirkpatrick, 27 Sewall Street		1,500	1913
H. Ralph Aubin, 6 Oxford Street		1,400	1917
Roy R. King, 16 Landers Street		1,300	1918
Phillip J. Hefferman, 6 Summer Street		1,100	1918
VOCATIONAL SCHOOL FOR GIRLS			
41 Atherton Street.			
Mary Henleigh Brown, Prin., 5 Linnaean St., Camb.		\$1,700	1911
Mary Donoghue, 10 Miller Avenue, Cambridge		950	1911
Lucy Dorr, 96 Oxford Street		950	1911
Marion P. Crawford, 9 Monmouth Street		1,050	1911
Mrs. Vernie Neily, 96 Heath Street		800	1916
Emma M. Damon, 89 Central Street		950	1908
Flora E. Stevens, Secretary, 33 Wallace Street		\$11 per wk.	1915
(WILLIAM H.) PRESCOTT SCHOOL			
Grade.	Pearl and Myrtle Streets.		
	Samuel A. Johnson, Master, 91 Central St.	.....	1893
4.	Clara Taylor, 36 Flint Street	\$950	1871
3.	Elizabeth L. Marvin, 17 Summit Street	950	1898
2.	Louise E. Pratt, 40 Greenville Street	950	1889
1.	Jeannette M. Hannabell, 166 Highland Avenue	950	1917
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
	Charles E. Brainard, Master, 82 Munroe Street	.....	1917
4.	Mrs. Agness M. Travis, 100 Park Ave., Winthrop	\$1,000	1908
3.	Jennie M. Twiss, 67 Berkeley Street	950	1903
3.	Maude A. Nichols, 166 Highland Avenue	950	1906
3. 2.	Frances E. Robinson, 208 Powder House Boulevard	950	1908
2.	Mrs. Nellie W. McPheters, 163 Summer Street	950	1914
2.	Martha L. Littlefield, 65 Glen Street	950	1897
1.	Florence M. Shaw, 58 Central Street	950	1909
1.	Marion A. Viets, 122 Dale Street, Waltham	950	1912
1.	Alice M. Saben, 40 Greenville Street	950	1903
Asst.	Ethel H. Werner, 59 Cedar Street	500	1919
Kind'n.	Elizabeth J. Baker, 78 Boston Street	850	1907
Asst.	*Frances L. McGann, 45 Putnam Street	550	1914
Asst.	Gertrude Prichard, 5 Webster Street	400	1918
CLARK BENNETT SCHOOL.			
Poplar and Maple Streets.			
	Charles E. Brainard, Master, 82 Munroe Street	.....	1917
4.	Kate B. Gifford, 29 Robinson Street	\$1,000	1902
4. 3.	Eleanor W. Nolan, 88 Highland Avenue	950	1909
3.	Mrs. Nettie L. Fay, 15 Pleasant Avenue	950	1901
2.	Isadore E. Taylor, 36 Flint Street	950	1883
2.	Mary L. Gallagher, 81 Benton Road	850	1913
1.	Alice M. Hayes, 8 Aldersey Street	950	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	950	1906
1.	Mrs. Amy F. Woodbury, 183 College Avenue	950	1917
Kind'n.	Helen E. Harrington, 1675 Massachusetts Ave., Camb.	850	1912
Asst.	Regina Desmond, 3 Oak Street, Charlestown	500	1918
Non-Eng.	Mrs. Lillias T. Lawton, 30 King Street, Dorchester	950	1913

* Leave of Absence.

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.		Began
Grade	GEORGE L. BAXTER SCHOOL. Bolton Street.	Serv- ice.
5.	Mary G. Blackwell, Principal, 45 Ibbetson Street	\$1,050 1900
4.	Etta R. Holden, Union Square Hotel	950 1908
3.	Margaret M. Breen, 461 Somerville Avenue	900 1916
2.	Sue A. Fitzpatrick, 451-a Somerville Avenue	950 1912
1.	Maria D. McLeod, 78 Larchwood Drive, Cambridge	950 1906
Kind'n.	Eleanor A. Connor, 59 Church Street	850 1903
Asst.	Martha W. Delay, 48 Beacon Street	650 1911

OREN S. KNAPP SCHOOL

Concord Avenue.

6. Clara M. Burns, Acting Principal, Ayer	\$1,025	1914
6. Nona E. Blackwell, 45 Ibbetson Street	950	1906
5. Winifred I. Macdonald, 43 Babcock Street, Brookline	950	1917
5, 4. Ellen C. Moynihan, 69 Avon Street	900	1919
4, 3. Eleanor M. Lundgren, 50 Harrison Street	750	1919
3. Agnes C. Riley, 451 Somerville Avenue	700	1918
2. Mrs. Minnie P. Cunningham, 77 Walnut Street	950	1891
1. M. Edith Callahan, Woburn	950	1911

ALBION A. PERRY SCHOOL.

Washington Street, near Dane Street.

6. Catherine E. Sweeney, Principal, 633 Broadway	\$1,050	1901
5. Mary A. Mullin, 27 Shawmut Street	950	1910
4. Irene Vincent, 47 Vinal Avenue	950	1903
3. L. Gertrude Allen, 230 Washington Street	950	1884
2. Mrs. Sarah E. Murphy, 120 Rogers Avenue	950	1906
1. Grace R. O'Neil, 347 Washington Street	950	1913

CHARLES G. POPE SCHOOL.

Washington and Boston Streets.

George M. Wadsworth, Master, Whitman		1891
6. Florence A. Chaney, 56 Boston Street	1,100	1892
6. Alice I. Norcross, 90 Russell Avenue, Watertown	950	1885
6. Harriet M. Clark, 10 Vernon Street, West Medford	950	1893
6, 5. M. Abbie Tarbett, 11 Washington Street, Stoneham	950	1906
5. Eva R. Barton, 33 North Street, Stoneham	950	1904
5. C. Edith Taylor, 36 Flint Street	650	1917
5, 4. Lizzie W. Parkhurst, 22 Highland Avenue	950	1885
4. Annie G. Sheridan, 57 Stanley Avenue, Medford	950	1886
3. M. Katherine Davis, 9 Harvard Place	950	1904
2. Florence E. Locke, 393 Broadway, Cambridge	950	1899
2, 1. Mary J. Dewire, 384 Washington Street	850	1913
1. Alice B. Frye, 12 Champa Avenue, Malden	950	1904

(JOHN A.) CUMMINGS SCHOOL.

School Street, near Highland Avenue.

George M. Wadsworth, Master, Whitman	.....	1912
4. Fannie L. Gwynne, Principal, 65 School Street	\$1,000	1886
3. Katherine M. Fox, 150 Franklin Street, Stoneham	950	1896
2. Elizabeth L. Hersey, 96 Oxford Street	950	1896
1. Mrs. Stella M. Hadley, 11 Greene Street	950	1914

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.			Began Serv- ice.
(JOHN G.) EDGERLY SCHOOL.			
Cross and Bonair Streets.		Salary.	
	Charles E. Brainard, Master, 82 Munroe Street	\$2.150	1889
6.	Edith M. Snell, 4 Vine Street, Melrose	1,025	1900
6.	Annie L. Dimpsey, Hotel Woodbridge	950	1891
6.	Mary E. Richardson, 35 Auburn Avenue	950	1893
5.	Isabelle M. Gray, 25 Webster Street	950	1897
5.	Mabel C. Mansfield, 35 Auburn Avenue	950	1893
5.	Berta M. Burnett, 1619 Mass. Ave., Cambridge	950	1915
5.	G. Hortense Pentecost, 4 Walter Terrace	950	1905
4.	J. Louise Smith, 20 Red Rock Street, Lynn	950	1896
4.	Myrtle M. Irwin, 41 Putnam Street	700	1916
3.	Lillian Nealley, 109 Glen Street	950	1882
2.	Alice W. Cunningham, 62 Highland Avenue	950	1901
1.	Martha M. Power, 37 Gleason St., West Medford	950	1890
Asst.	Eleanor Waldron, 135 Powder House Boulevard	500	1918
Asst.	Mrs. Christine E. Carter, 262 School Street	700	1918
JACOB T. GLINES SCHOOL.			
Jaques Street, near Grant Street.			
	Mary E. Northup, Master, 9 Forster Street	\$2.150	1878
6.	Margaret A. Orr, 146 Massachusetts Ave., Boston	1,025	1890
6.	Ruth E. Clarke, 35 Montrose Street	950	1915
5.	Harriet F. Ward, 71 Thurston Street	950	1895
5.	Alice C. Blodgett, 52 Adams Street	850	1917
4.	Mary A. Goddard, 9 Winter Hill Circle	950	1893
4.	Mrs. Carrie Armitage, 57 Madison Street	950	1899
4, 3.	Mrs. Elsie M. Guthrie, 50 Bromfield Road	850	1919
3.	Florence E. Baxter, 49 Hudson Street	950	1891
3, 2.	Cora J. Demond, 146 Massachusetts Avenue, Boston	950	1900
2.	Edith M. Dow, 20 Monmouth Street	900	1914
2, 1.	Florence W. Schroeder, 268 Summer Street	725	1915
1.	Leslie Caverly, 9 Wildwood Street, Winchester	950	1908
1.	Isabel J. Tift, 24 Central Road	950	1892
Kind'n.	Mrs. Etta D. Ellsworth, Trinity Court, Boston	950	1897
Asst.	Ida M. Kane, 28 Fellsway West	650	1905
(CHARLES) FORSTER SCHOOL.			
Grade.	Sycamore Street and Evergreen Avenue.		
	John S. Emerson, Master, 3 Preston Road	.....	1918
6, 5.	Elizabeth F. Clement, 29 Kidder Avenue	\$950	1884
5, 4.	Annie S. Gage, 32 Marshall Street	950	1881
3, 2.	Carrie T. Lincoln, 65 Ashland Street, Medford	950	1893
2, 1.	Grace Shorey, 23 Forster Street	950	1892
(NORMAN W.) BINGHAM SCHOOL.			
Lowell Street, near Vernon Street.			
	Harry F. Hathaway, Master, 29 Albion Street	\$2.150	1890
6.	Elizabeth J. O'Neil, 29 Albion Street	1,100	1894
6.	Maude M. Cunningham, 29 Albion Street	950	1913
6, 5.	Jane Batson, 15 Florence Street, Malden	950	1900
5.	Helen M. Farr, 4 Oak Street, Belmont	725	1916
5.	Elizabeth S. Brown, 58 Thurston Street	950	1897
4.	Clara L. Griffiths, 39 Ames Street	950	1902
4.	Anna R. Canfield, 205 Cedar Street	800	1914
4.	Barbara E. Drummey, 43 Short Street, Marlboro	800	1918
3.	Lillian F. Commings, 24 Hanson Street	725	1914
3.	Lynda V. Merrill, 26 Brastow Avenue	950	1912
2.	G. Marion Lovering, 27 Flint Street	850	1913
2.	Priscilla A. Merritt, 96 Oxford Street	950	1885
2, 1.	M. Gertrude McCarthy, 36 Brastow Avenue	650	1917
1.	Mabel E. Mansir, 77 Albion Street	950	1894
1.	Ethel Gross, 241 Summer Street	650	1917

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.			
MARTIN W. CARR SCHOOL.			
Grade.	Atherton Street.	Salary.	Began Service.
	Chas. G. Ham, Master, 20 Washburn St., Watertown	\$2,150	1898
6.	N. Elizabeth Kennedy, 29 Greene Street	600	1919
6.	Julia A. Simmons, 69 Jaques Street	950	1911
6.	Mary L. Abbott, 204 Hemenway Street, Boston	950	1910
5.	Hazel N. Friend, 128 Rowe Street, Melrose	950	1915
5.	Lillian T. Haskell, 41 Putnam Street	950	1913
5.	Elizabeth S. Foster, 10 Cambria Street	950	1895
5.	Dorothy Lundgren, 50 Harrison Street	700	1915
4.	Eva S. Bent, 6 Steeves Circle	1,025	1915
4.	Alice M. Cumming, 117 School Street	650	1917
3.	Margaret M. Brennan, 30 School Street	650	1917
3.	Bessie I. Berry, 38 Wyllis Avenue, Everett	950	1915
2.	Annie B. Russell, 14 Kidder Avenue	950	1901
2.	Mary E. Flanley, 9 Avon Street, Wakefield	800	1915
1.	Frances E. Welch, 303 Highland Avenue	950	1908
1.	Mabel Ingham, 62 Central Street	750	1912
(ENOCH R.) MORSE SCHOOL.			
Summer and Craigie Streets.			
	Mina J. Wendell, Master, 211-A Summer Street	\$2,150	1882
6.	Mrs. Harriette C. Hamilton, 50 Spring Street	1,025	1900
6, 5.	Lennie W. Bartlett, 10 Cambria Street	950	1893
5.	Helene H. Parker, 26 Gibbens Street	950	1916
4.	Mary A. Whitney, 10 Dow Street	950	1916
3.	Eva A. Wilson, 52 Crescent Circuit, Brighton	600	1917
3.	Mrs. Agnes C. Rice, 34 Highland Avenue	950	1900
2.	Alice C. Ray, 10 Cambria Street	950	1914
2.	Louise Deady, 84 Bay State Avenue	650	1917
2, 1.	Lena Munroe, 211-A Summer Street	950	1913
1.	Helen L. Tuck, 43 Paulina Street	950	1912
GEORGE O. PROCTOR SCHOOL.			
Hudson Street.			
	Harry F. Hathaway, Master, 495 Broadway	.....	1912
6.	Nora F. Byard, Principal, 27 College Avenue	\$1,100	1884
6, 5.	Alice G. Hosmer, 42 Boston Street	950	1906
5, 4.	Abbie A. Gurney, 88 Belmont Street	950	1889
4, 3.	Ella P. McLeod, 163 Summer Street	950	1888
3, 2.	Edith L. Hunnewell, 41 Mason Street	950	1894
2.	Mary S. Richardson, 347 Boston Avenue, Medford	950	1906
1.	Lucia Alger, 29 Cambria Street	950	1889
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets.			
4.	Abigail P. Hazelton, Principal, 9 Monmouth Street	\$1,000	1902
3.	Grace E. Packard, 12 Carlisle Street, Roxbury	950	1912
2.	Mary Winslow, 23 Hall Street	950	1887
1.	Alice M. Dicker, 82 Marion Street, East Boston	950	1912
MARK F. BURNS SCHOOL.			
Cherry Street, near Highland Avenue.			
	Frank W. Seabury, Master, 18 Winslow Avenue	.....	1911
4.	Mrs. Margaret D. Hellyar, 427 Medford Street	\$1,000	1909
4.	Lizzie E. Hill, 11 East Newton Street, Boston	950	1890
3.	Annie L. Brown, 4 Saginaw Avenue, No. Camb.	950	1885
3.	Margaret Beattie, 401 Washington Street	800	1914
2.	Mary E. Lacy, 63 Cherry Street	950	1890
2.	Ardelle Abbott, 71 Craigie Street	950	1896
1.	Alice E. Morang, 114 Belmont Street	950	1893
1.	Ruth E. Andrews, 48 Hancock Street	850	1917

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.		Salary.	Began Service.
Grade.	Willow Avenue and Josephine Avenue.		
	Geo. I. Bowden, Master, 92 Monument St., W. Med.	\$2,150	1908
6.	Maude E. Abbott, 235 Clifton Street, Malden	925	1918
5.	Mary T. Ford, 154 Elm Street, Cambridge	950	1911
5.	Annie Sanburn, 11 East Newton St., Boston	950	1906
4.	Anna N. Johnson, 33 Everett Avenue	950	1913
4.	Martha R. Taylor, 26 Simpson Avenue	950	1914
3.	Helen L. Galvin, 1681 Beacon St., Brookline	950	1903
3.	Alice M. Dorman, 159 Morrison Avenue	950	1903
2.	Mrs. Grace H. Bliss, 33 Whitfield Road	950	1900
2, 1.	Bessie Thorpe, 16 Park Place	725	1915
1.	Olivia H. Norcross, Wilmington	950	1914

HIGHLAND SCHOOL.

Highland Avenue and Grove Street.

	Frank W. Seabury, Master, 18 Winslow Avenue	\$2,150	1911
6.	Grace M. Clark, 10 Vernon Street, West Medford	1,025	1893
6.	Mary H. Joyce, 42 Orchard Street, Cambridge	950	1891
6.	Ethel M. Park, 48 Electric Avenue	900	1916
6.	Lillian F. Richardson, 129 Mt. Auburn St., Camb.	950	1904
5.	Marie Clifford, 35 Langdon Street, Cambridge	950	1907
5.	Cara M. Johnson, 42 Prentiss Street, Cambridge	950	1897
5.	Marion Allen, Danvers	950	1911
5.	Catherine A. Burden, 29 Newbury Street	950	1902
5.	Eva E. Perkins, 48 Astor Street, Boston	950	1911
5.	Eva M. Barrows, 71 Hudson Street	950	1903
4.	Harriet M. Bell, 42 Orchard Street, Cambridge	950	1904

S. NEWTON CUTLER SCHOOL.

Powder House Boulevard, near Raymond Avenue.

	Harlan P. Knight, Master, 22 Hamilton Road	\$2,150	1897
6.	Bernice J. Andrews, 10 Locke Street	1,025	1914
6.	Mrs. Edith A. Thornquist, 26 Whitfield Road	950	1906
6.	Ella H. Bucknam, 1105 Broadway	950	1897
5.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	950	1893
5.	Georgie B. Collins, 7 Ware Street, Cambridge	950	1916
5.	Bessie J. Baker, 19 Mills Street, Malden	950	1905
4.	Mrs. Elva A. Cutler, 36 Powder House Boulevard	950	1911
4.	M. Eunice Young, 209 Washington Street, Winchester	950	1912
4.	Mrs. E. Florence Watkins, 22 Hamilton Road	600	1916
3.	Bessie A. Mirfield, 4 Electric Avenue	950	1916
3.	Mrs. Katie L. Harmon, 187 Elm Street	600	1916
3.	Mary L. Ennis, 785 Broadway	950	1915
2.	Inez M. Rodgers, 30 Conwell Avenue	950	1915
2.	Almena J. Mansir, 77 Albion Street	950	1899
1.	May V. Powell, 47 Centre Street, Malden	950	1913
1.	Annie H. Hall, 97 College Avenue	950	1906
1.	Mary L. McKenna, 294 Lowell Street	700	1915

LINCOLN SCHOOL.

Broadway, near Teele Square.

	Harlan P. Knight, Master, 22 Hamilton Road	.....	1914
2.	Eliza H. Lunt, Principal, 50 Curtis Street	\$1,000	1889
3.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	950	1911
2.	Olevia M. Woods, 116 Powder House Boulevard	950	1903
1.	Hortense F. Small, 91 Electric Avenue	950	1912

TABLE 29.—Teachers in Service January, 1919.—Continued.

Name and Residence.			
MARTHA PERRY LOWE SCHOOL.			
Grade.	Morrison Avenue, near Grove Street.	Salary.	Began Service.
	George I. Bowden, Master, 92 Monument St., W. Med.		1908
4.	May E. Small, Principal, 181 Orchard St., Camb.	\$1,100	1900
4.	Stella M. Holland, 29 Hall Avenue	950	1903
3.	Maude C. Valentine, 1098 Broadway	950	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	950	1888
2.	Katherine E. Hourahan, 15 Summit Street	950	1892
2.	Clara G. Hegan, 100 School Street	950	1897
1.	Martha A. Jencks, 38 Chester Street	950	1898
1.	Octavia A. Stewart, 15 Kenwood Street	950	1917
EVENING SCHOOL PRINCIPALS.			
	Everett W. Tuttle, High	\$6.00	
	John S. Emerson, Bell	5.00	
	Charles E. Brainard, Highland	4.00	
CADET TEACHERS.			
	Catherine E. Giles, 5 Bradbury Avenue, Wellington	\$400	1918
	Helen A. Moran, 483 Medford Street	400	1918
SPECIAL TEACHERS.			
Music.			
12, 7.	James P. McVey, 29 Hammond Street, Cambridge	\$1,800	1915
6, 1.	Mrs. Charlotte D. Lawton, 121 St. Stephen St., Boston	1,100	1898
Drawing.			
9, 1.	Clara M. Gale, 21 Willoughby Street	1,200	1911
Sewing.			
	Mary H. Brown, Supervisor, 5 Linnaean St., Camb.	*200	1913
6, 5.	Mary L. Boyd, 74 Heath Street	950	1888
6, 5.	Mrs. Emma J. Ellis, 54 Marshall Street	950	1900
6, 5.	Stella G. Bucknam, 319 Highland Avenue	†220	1918
Penmanship.			
9, 1.	Ruth L. Whitehouse, 40 Highland Avenue	1,000	1915
Manual Training.			
	Harry L. Jones, Supervisor, 137 Pow. House Blvd.	†200	1911
Physical Instruction.			
12, 1.	Ernst Hermann, 9 Humboldt Street, Cambridge	\$1,250	1914
12, 1.	Alma Porter, 43 Ossipee Road	800	1918
Atypical.			
	Mary A. Holt, 13 Pleasant Avenue	\$1,000	1910
	Mrs. Bertha M. Morton, 62 Highland Avenue	1,000	1913
	Julia M. Riordan, 165 Albion Street	850	1914
* Additional to salary as Principal of Girls' Vocational School.			
† Additional to salary as Principal of Boys' Vocational School.			
‡ Part time.			

TABLE 30.—OFFICERS, ETC., IN SERVICE JANUARY, 1919.

Name and Address.		
SUPERINTENDENT AND SECRETARY		Salary.
Charles S. Clark, 75 Munroe Street		\$3,850
Joseph A. Ewart, Assistant Superintendent, 11 Bigelow St.,		2,750
CLERKS.		
Mary A. Clark, 42 Highland Avenue		1,000
Mildred A. Merrill, 26 Cambria Street		950
H. Madeline Kodad, 1067 Broadway		15.35 per wk.
Ethel G. Carvell, 29 Minnesota Avenue		15.35 per wk.
ATTENDANCE OFFICER.		
Benjamin R. Jones, 25 Loring Street		1,500

TABLE 31.—SCHOOL JANITORS, JANUARY, 1919.

School.	Name.	Residence.	Weekly Salary
High School, assistant.	Robert A. Burns	58 Beacon St.	\$21.00
High School, assistant.	Jeremiah M. Brennan	482 Medford St.	20.00
High School, assistant.	John N. Quirk	202 Somerville Ave.	20.00
High School, assistant.	Nicholas J. Lacey	85 Franklin St.	25.00
High School, fireman	Charles Hoyt	18 Trull St.	25.00
E. Som. J. High, S, 11	James J. Quirk	32½ Tufts St.	22.50
Prescott, S, 12	H. L. Duren	163 Willow Ave.	23.50
Hanscom, S, 10	Charles F. Rose	15 Brastow Ave.	21.50
Boys' Vocational, F, 4	Charles B. Kelley	25 Clark St.	21.00
Bennett, S, 12	Michael Mullaney	467 Somerville Ave.	23.00
Baxter, S, 6	Andrew H. Finnegan	94 Concord Ave.	19.00
Knapp, S, 12	Maurice T. Mullins	13 Fremont Ave.	23.00
Perry, S, 6	Dan'l E. Cunningham	23 Fitchburg St.	19.00
Pope, S, 12	John J. Kilty	662 Somerville Ave.	23.00
Bell, S, 12	William Meskill	53 Partridge Ave.	25.00
Southern Junior High	Joseph F. McCormack	206 Washington St.	20.00
Cummings, F, 4	Lewis G. Keene	56 Prescott St.	16.50
Edgerly, S, 12	Charles P. Horton	22 Everett Ave.	23.00
Glines, S, 14	Roy C. Burckes	20 Jaques St.	24.00
Forster, S, 12	George W. Coombs	73 Bonair St.	23.00
Winter Hill J. High, S, 11	*Michael A. Mullin	16 Bowdoin St.	22.50
	Thomas H. Dickinson	5 Berkeley St.	22.50
Bingham, S, 16	John F. O'Brien	347 Lowell St.	26.00
Carr, S, 16	John H. Lane	5-A Belmont St.	29.00
Morse, F, 12	John W. Cremen	69 Oxford St.	23.50
Proctor, S, 8	James F. Flynn	31 Linden St.	20.50
Durell, S, 4	Ellsworth C. Lundgren	50 Harrison St.	16.50
Burns, S, 8	Charles J. Elkins	35 Mansfield St.	20.50
Brown, S, 10	James J. Cooper	105 Willow Ave.	21.50
Highland, S, 12	E. Parker Cook	103 Willow Ave.	23.00
Hodgkins, S, 14	George A. Givan	17 Henry Ave.	24.00
W. Somerv ¹² J. High	James T. Eddy	38 Wallace St.	26.00
Cutler, S, 12	Daniel Campbell	85 Lexington Ave.	23.00
Cutler, Assistant	Walter M. Burns	23 Avon St.	20.00
Lincoln, S, 4	Thomas F. O'Day	134 Lowell St.	16.50
Lowe, S, 8	Frank H. Flagg	22 Clyde St.	20.50
Girls' Vocational, F, 6	Thomas G. Pullen	6 Madison St.	16.50

Buildings heated by steam are marked "S," by furnace "F." The numbers show the number of rooms.

The high school is heated from the Central heating plan.

*Leave of absence.

PUBLIC LIBRARY.

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Report of the Trustees.

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen,—The forty-sixth annual report of the Trustees of the Public Library is herewith respectfully submitted.

We wish at this time to call attention to the valuable services rendered the Library War Service by Mr. Geo. H. Evans, our Librarian, and, as evidence of the splendid work done by him, we will quote from a letter of the American Library Association, "Our gratitude would be great if an extension of Mr. Evans's service at Hampton Roads could be arranged. We do not know where else to look for another man fitted, as Mr. Evans is, to carry on the matters there at the present time."

We wish also to commend the work done by Miss Carrie L. Williams at the Base Hospital Library at Camp Devens, Mass.

The report of the Librarian and tables of statistics is appended.

Very respectfully,

The Board of Trustees, by

THOS. M. DURELL,
President.

ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.

December 31, 1918.

GEORGE HILL EVANS, Librarian.
NELLIE M. WHIPPLE, Assistant Librarian.

CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.

Highland Avenue and Walnut Street.

Main Delivery and Reading Room.

Open week days, except holidays, 9 a. m. to 9 p. m.

Children's Room.

Open during school term, Monday and Thursday, 3 to 8 p. m. Saturday, 9 a. m. to 6 p. m. Other week days, 3 to 6 p. m. Open during vacation, week days 9 a. m. to 6 p. m.

GRADED SERVICE.**DEPARTMENT HEADS AND SPECIAL POSITIONS.**

CARRIE L. WILLIAMS. (On leave in U. S. Hospital Service. Branch Librarian rank.)
VIVIAN J. MORSE, Executive Assistant.
CORR B. EAMES, Reference Librarian.
EDITH B. HAYES, Chief Cataloguer.
MARY S. WOODMAN, Reviewer and Classifier.
EDNA C. WOODBURY, Children's Librarian.
MARGARET M. KNEIL, High School Librarian.
ANNA L. STONE, Periodicals.
SUSAN W. CURTIS, Graded and Junior High School Deposits.

Senior Assistants.

MYRTLE NICHOLSON, Desk Chief.
HELEN P. SMITH, Assistant Cataloguer.
MARGUERITE C. KELLY. NINA L. WINN.

Junior Assistants.

RUTH G. MARKLE. RUTH H. STRETTON.

UNGRADED SERVICE.**Catalogue Department**

MARION L. FALL,

CIRCULATION DEPARTMENT.**Pages**

LILLIAN MCGOWAN. EDITH LYNCH.

Attendants on Part Time.

LEILA BEARDSLEY. BERNICE WATT.
MILDRED COOK.

Training Class Attendants.

RUTH BURCKES.

FLORENCE M. KENNEDY.

BERNHARDENA H. MORRISON.

WEST SOMERVILLE BRANCH.

Established 1909.

40 College Avenue.

Open week days, except holidays, 1 to 9 p. m.

Saturdays, 9 a. m. to 9 p. m.

GRADED SERVICE.

ESTHER M. MAYHEW, Branch Librarian.

MABEL E. BUNKER, 1st Assistant.

Senior Assistants.

GLADYS B. HASTINGS, Children's Librarian.

EDYTHE L. MILLER.

HELEN E. PULSIFER.

UNGRADED SERVICE.

Pages

MAE L. GORMLEY.

Attendants on Part Time.

S. LEONE WARREN.

PAUL PARKER.

DUDLEY MOORE.

HAZEL MOORE.

HELEN CURRIE.

WILBUR STANLEY.

EAST SOMERVILLE BRANCH.

Established 1912.

Broadway and Illinois Avenue.

Open week days, except holidays, 2 to 9 p. m.

GRADED SERVICE.

BEATRICE E. KELLIHER, Branch Librarian.

Senior Assistants.

RUTH S. FALES, 1st Assistant.

AGNES F. JUDKINS.

UNGRADED SERVICE.

Attendants on Part Time.

CECIL McDONALD.

PHYLLIS McDERMOD.

MARION DOW.

DORIS McDONALD.

UNION SQUARE BRANCH.

Established 1912.

Washington Street and Bonner Avenue.

Open week days, except holidays, 2 to 9 p. m.

GRADED SERVICE.

MILDRED R. HOLT, Branch Librarian.

Senior Assistants.

ABBIE G. GLOVER, 1st Assistant.

EUGENIE CARTER, Children's Librarian.

ETHEL M. NUTE (On leave).

UNGRADED SERVICE.**Attendants on Part Time.**

BESSIE BERMAN.

MILDRED CARTER.

F. ADELAIDE FURLONG.

NOTE: For changes in staff personnel during the year see Librarian's report.

Report of the Librarian.

Gentlemen of the Board of Trustees:—

The Forty-sixth Annual Report of the Somerville Public Library, for the year 1918, is herewith submitted.

The abnormal and trying year now past brought with it new and difficult problems arising from unprecedented social and economic conditions. The inadequacy of salaries in our second and third grades has now become so serious as to affect adversely the efficiency of our staff. The approach of a crisis was recognized by the Trustees early in the year and a carefully considered revision of salaries, which could be put into effect within the limits of the present appropriation, was recommended by vote of the Board. The measure, however, failed to secure official approval. Somerville now has the unenviable reputation of paying its library assistants in these grades the smallest salaries of any municipality of its class in the State. In fact, Somerville is now lagging in the rear of many smaller cities like Woburn, Malden, Quincy, and numerous towns. As a result we are in the position of a training school for surrounding libraries that are able by the payment of better salaries to secure our younger assistants as soon as they become competent, while we are unable to fill our vacancies. This problem is entirely distinct from the competition of salaries paid by business positions, from which we have also suffered. It is most unfortunate that for the lack of a few hundred dollars a year the Somerville Public Library, which has for many years held a position of leadership, should be allowed to drop into a secondary place, particularly at a time when our national energies are being directed toward the processes of Americanization in which the library is emphasized as one of the two or three most potent agencies.

Our Central Library was open two hundred and twenty-two days in 1918. It was closed on account of fuel shortage and the prevalence of influenza eighty-one days. Our Branches were not affected by the fuel shortage but were closed fourteen days during the epidemic.

On account of a reduced appropriation at Central it was impossible to maintain the book collection. One thousand five hundred and fifty-seven more books wore out than we were able to purchase.

Under such adverse circumstances it is not surprising that the total circulation of books, 354,343, was less than in 1917. Two of the Branches, however, show a creditable increase, Union Square of 4,938 and East Somerville of 16,386. The latter is noteworthy even for the most favorable of years. An increase of 31 per cent. in circulation and of over 100 per cent. in

registration, is conclusive evidence of the interest of the people of East Somerville in their new building. Its more accessible location has brought a large influx of new readers. On the whole there has been less reading during the year in all public libraries. Our young men in the service have been reading their books in the Camp Libraries, to the support of which our public and library have contributed. Their relatives and friends at home have quite properly spent less time in reading and more time in working for the various civilian organizations for war relief.

Through its Reference Department the Library makes a specialty of answering questions and finding information upon every subject under the sun. Some people not well informed concerning the resources of their own city send their questions to the Boston papers and then wait several days for the answers to be printed. The knowing ones of Somerville bring their problems to the library or call it on the telephone. We supplied the needed facts in reply to over forty thousand such questions in 1918. In the majority of cases only a few minutes were required to find the answer. Occasionally we were handed a hard nut to crack, that required a few hours of patient hammering to get at the kernel. Our six thousand, four hundred and thirty-six reference books, and long files of technical periodicals with their minute indexes, in the hands of trained specialists, make a source of information incomparably superior to any similar agency possessed by a newspaper. The library is equipped to furnish authoritative information promptly.

It cannot be too often reiterated that the Public Library is a part of the public educational establishment of the city. To supplement the work of the schools it has maintained a special collection of professional books for the use of teachers, it has lent to the graded schools over five thousand specially selected books, it has brought together for the use of the newly organized Junior High Schools another special collection already numbering nearly two thousand, seven hundred. For the administration of this work it devotes the full time of two, and part time of a third, specially trained, college-bred, assistants.

The educational work of the library, however, is not confined merely to the provision of books for pupils and their administration, excellent as this work is. Beginning with the child barely able to enjoy pictures it initiates a program of American citizenship. The child who comes to the library is taught cleanliness, good manners, respect for public property, obedience to constituted authority, and intelligent patriotism. During the years of school attendance the schools deal with the pupil in the mass. The problems of the individual can receive but slight consideration. The library, on the other hand, deals

with the individual. It provides for him a continuation school after his days of formal instruction are over. It guides him in the choice of a vocation, and provides material for advancement in his occupation. It teaches him the sources of information and the use of books as tools. It offers him the opportunity of acquiring an increased earning capacity whereby his standard of living may be raised, and of securing a better future for his children.

During 1918 the library suffered the losses by resignation of Mrs. Lucinda F. Spofford, Branch Librarian of the West Somerville Branch, who was succeeded by Esther M. Mayhew, transferred from the Reference Department; Helen Luitwieler, Director of the Training Class; Helen Martin, Children's Librarian at Union Square; Anna B. Truesdale, Children's Librarian at West Somerville; and the following assistants in the Second and Third Grades: Nectar M. Eksergian, Frances E. Haggens, and Evelyn V. Snow. The library granted an indefinite leave of absence to Carrie L. Williams, who volunteered her services as Base Hospital Librarian at Camp Devens; it also granted a leave of absence to Ethel M. Nute for the purpose of additional study at Simmons College. The following appointments have been made: Cora B. Eames, Reference Librarian; to the Second and Third Grades, Nina L. Winn, Ruth G. Markle, Ruth H. Stretton, Helen E. Pulsifer, Agnes F. Judkins. In September the library was glad to welcome back Miss Susan W. Curtis from a year's absence in study at Boston University. Miss Curtis has been placed in charge of work with graded and Junior High Schools.

During the year every member of our staff has contributed service of varying periods for war relief, through such agencies as the Red Cross and the American Library Association Camp Libraries. The Librarian was given a three months' leave of absence from October 6 for the purpose of organizing a Camp Library at the United States Naval Operating Base, Hampton Roads, Virginia. The Central Library has acted as a clearing house for the forwarding of books given to camp libraries at home and over-seas. The Trustees have allowed the United States Exemption Board free use of the second floor of the West Somerville Branch during the entire year.

The appended tabulations are submitted as a part of this report.

Respectfully submitted,

GEO. H. EVANS,
Librarian.

The Public Library of the City of Somerville

APPENDIX A.

Statistics of Use and Growth, 1918.

Circulation.

	Central	West	East	Union	Total
Volumes circulated, adult	81,254	85,417	44,920	30,942	242,533
Volumes circulated, juvenile	25,781	32,044	22,918	31,067	111,819
Total circulation (A. L. A. rules)	107,035	117,461	67,838	62,009	354,343

Accessions.

Volumes in library (January 1, 1918)		11,499	4,602	4,771	115,216
Volumes added	2,978	1,015	1,004	822	5,819
Volumes transferred to	43	141	381	178	743
Volumes restored	11	16	3	5	35
Total added	3,031	1,172	1,388	1,005	6,596
Volumes withdrawn	3,722	751	364	648	5,485
Volumes transferred from	700	42	0	1	743
Volumes lost	166	23	34	21	244
Total loss	4,588	806	398	670	6,472
Net gain or loss		1,557 (loss)	356	335	124
Volumes in library (December 31, 1918)	92,787	11,855	5,592	5,106	115,349

Registration.

New borrowers registered					3,398
Valid borrowers' cards, i. e. registered or renewed within two years	882	1,014	845	657	14,206

APPENDIX B.

American Library Association Form for Uniform Statistics.

Annual report for year ended December 31, 1918.

Name of Library, The Public Library.

City or town, Somerville; State, Massachusetts.

Population served (1917 draft estimate)..... 90,000

Terms for use—Free for lending.

Free for reference.

Total number of agencies..... 167

Consisting of—Central Library

3 Branches (separate buildings)

1 Station

High School Department

157 School Rooms

4 Institutions

Number of days open during year (Central Library) 220
 for lending, 220 for reading. (Closed 81 circulating
 days on account of fuel shortage and influenza).

Hours open each week for lending (Central Library).... 72

Hours open each week for reading (Central Library).... 72

Number on staff (library service, adding part time em-
 ployees to make whole units) December 31, 1918.... 35

Number of volumes at beginning of year..... 115,216

Number of volumes added during year by purchase.... 5,614

Number of volumes added by gift or exchange..... 85

Number of volumes added during year by binding ma-
 terial not otherwise counted..... 90

Number of volumes withdrawn during year..... 5,485

Total number at end of year..... 115,340

Adult.

Juvenile

Number of volumes of fiction
 lent for home use.....,.... 180,870 62,486 243,356

Total number of volumes lent
 for home use..... 242,533 111,810 354,353

*All books except 7 day and juvenile (2 weeks) lent for
 one calendar month.*

Number of borrowers registered during year..... 3,398

Total number of valid cards December 31 (used within
 two years)..... 14,206

Number of newspapers and periodicals currently re-
 ceived, 210 titles, 550 copies.

Receipts from:

Local Taxation:

Library Department	\$33,238 14
Public Buildings Department	9,629 75

Endowment Funds:

Total Credit	1,417 89
Fines	1,438 01
Other sources: Dog licenses	2,168 85

\$47,892 64

Payments for:

Books	\$ 7,945 85
Pictures	45 00
Periodicals	1,153 09
Music	176 29
Binding	2,308 99
Salaries, library service	22,900 56
Other maintenance	2,778 43

Public Buildings Department:

Janitor service, heat, light, etc.	8,132 37
Transferred to other accounts	1,090 00
Balance	407 33

Balance from Appropriation	3 67
Balance from Endowment funds	951 01

\$47,892 64

BOARD OF HEALTH

1918

RALPH F. HODGDON, M. D., Chairman (resigned Nov. 8, 1918).

ROBERT M. LAVENDER, Chairman from Nov. 15, 1918.

WARREN C. BLAIR.

JOHN E. GILLIS, M. D. (from Nov. 15, 1918).

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD.

Agent.

GEORGE I. CANFIELD.

Acting Medical Inspector.

C. CLARKE TOWLE, M. D. (resigned Oct. 28, 1918).

HERBERT E. BUFFUM, M. D. (from Oct. 29 to Nov. 8).

RALPH F. HODGDON, M. D. (from Nov. 9, 1918).

Acting Bacteriologist.

HERBERT E. BOWMAN, Ph. G.

Inspector of Animals and Provisions.

CHARLES M. BERRY, V. S.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN, Ph. G.

Milk Collector.

GEORGE E. PLIMPTON (resigned Dec. 1, 1918).

Plumbing Inspector.

DUNCAN C. GREENE.

OFFICE OF THE BOARD OF HEALTH,
City Hall Annex, January 1, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen:—We respectfully submit the following as the forty-first annual report of the Board of Health in which is presented a statement, tabulated, and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1918.

Nuisances.

A record of nuisances abated during the year, in compliance with notices issued by the board, or under the board's direction, is presented in the following table:—

Complaints referred from 1917	26
Complaints received during 1918	565
	<hr/>
	591
Complaints referred to 1919	48
	<hr/>
Nuisances abated 1918	543
	<hr/>
Second and third notices sent on nuisances	60
Received during 1918	565
	<hr/>
Total notices sent	625

In addition to the above, 294 dead animals have been removed from the public streets. Many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders.—Eight cases of glanders have been reported during the year. Prompt action was taken in every case, and seven of the horses were killed, one being released from quarantine by order of the cattle commissioners.

Record of Permits and Licenses Issued.

Cows.—Ten applications were received for permits to keep thirteen cows, all of which were granted.

Swine.—Forty-nine applications were received for permits to keep ninety-four swine, forty-one of which were granted to keep seventy-nine swine. The fee is one dollar for each swine.

Goats.—Four applications were received for permits to keep six goats, all of which were granted. The fee is one dollar for each goat.

Hens.—One hundred and ninety-seven applications for permits to keep 3,320 hens were received. One hundred and eighty permits to keep 2,921 hens were granted, and seventeen permits were refused.

Grease.—Twelve applications were received for permits for fourteen teams to collect grease, which were granted. The fee is two dollars for each team.

Melting and Rendering.—Three parties have been licensed to carry on the business of melting and rendering, under the provisions of the revised laws of 1902, chapter 75, Section 111, for which a fee of one dollar is charged.

Massage and Manicure.—Eight persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

Stables.

No person has the legal right to erect, occupy or use any building in this city, as a stable, without obtaining a license from this Board for such occupancy. Each application is referred to the Agent of this Board and no license is granted unless all regulations of the Board are complied with. The following is a record of applications received and licenses granted:—

Applications pending from 1917	23	
Applications received during 1918	19	
		<hr/>
		42
Licenses granted	17	
Licenses refused	8	
Stables vacated	11	36
	<hr/>	<hr/>
Licenses pending		6

Board of Infants.

Twenty-six parties, whose applications were first approved by this board, have been licensed by the state board of charity to care for fifty-two children in this city, under the provisions of chapter 83 of the revised laws of 1902.

Deaths.

There were 1,533 deaths and seventy-four stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of 466, due largely to influenza or complications thereof.

Deaths at Somerville hospital during the year	103
Deaths at hospital for contagious diseases and tuberculosis	38
Deaths at home for aged poor (Highland avenue)	50
Deaths at city home	12
Deaths at other institutions	38
Deaths at Emergency Hospital for Influenza	30

DEATHS BY AGES.

AGES.								Total.	Male.	Female.
Under one	.	.	.	.	.	.	.	188	109	79
One to two	.	.	.	.	.	.	.	46	20	26
Two to three	.	.	.	.	.	.	.	31	15	16
Three to four	.	.	.	.	.	.	.	13	6	7
Four to five	.	.	.	.	.	.	.	12	5	7
Five to ten	.	.	.	.	.	.	.	33	16	17
Ten to fifteen	.	.	.	.	.	.	.	24	12	12
Fifteen to twenty	.	.	.	.	.	.	.	45	22	23
Twenty to thirty	.	.	.	.	.	.	.	182	71	111
Thirty to forty	.	.	.	.	.	.	.	190	85	105
Forty to fifty	.	.	.	.	.	.	.	116	61	55
Fifty to sixty	.	.	.	.	.	.	.	128	72	56
Sixty to seventy	.	.	.	.	.	.	.	189	96	93
Seventy to eighty	.	.	.	.	.	.	.	210	91	119
Eighty to ninety	.	.	.	.	.	.	.	108	40	68
Ninety and over	.	.	.	.	.	.	.	18	6	12
Total	.	.	.	.	.	.	.	1533	727	806

Mortality in Somerville in 1918.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISEASES OF THE DIGESTIVE SYSTEM.													
Acute indigestion					1	1		1					3
Colitis			1					2	2				5
Gastritis		1											1
Peritonitis			1				1						2
Diarrhœa				1			2	1					4
Gastric ulcer							1						1
Enteritis	3	1		2	1	2	1	3	6	4	1	1	25
Gall stones	1												1
Intestinal obstruction		1	1		1								3
Appendicitis		1								1		1	3
Intestinal toxæmia						1							1
Cirrhosis liver			1			1	2	1		1			6
Ptomaine poisoning													
VI. DISEASES OF GENITO-URINARY SYSTEM.													
Bright's disease	2		1		1		1			1			6
Uræmia							1				1	2	4
Nephritis	4	12	6	3	5	4	6	3	2	6	3	6	60
Cystitis		1	1							1			3
Prostatitis			1										1
VII. CHILDBIRTH.													
Placenta previa													
Childbirth													
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene		1											1
Scurvy		1											1
Herpes zoster									1				1
Pityriasis										1			1
IX. MALFORMATIONS.													
Hydrocephalus							1				1		2
X. EARLY INFANCY.													
Malnutrition	2		1	1		2		2	2	3	2	2	17
Premature birth and congenital debility	8	6	6	9	9	8	6	2	2	12	3	5	76
Atalectasis		1			1	1						1	4
Asphyxia neonatorum												1	1
XI. OLD AGE.													
Senile dementia		1	2	1	2	1		2	1				10
Arterio sclerosis	13	6	13	11	10	12	11	5	8	21	12	11	133
XII. VIOLENCE.													
Accidental burns from fire	1	1			1		1		1			1	6
Accidental burns from hot water													
Accidental fall	2			2			1						5
Accidental gas poisoning		3	1		1								5
Accidental poisoning													
Accidental strangulation									1				1
Fracture of skull	1				1								2
Exposure													
Homicide			1										1
Railroad													
Struck by automobile	1		1			1	1	2	1	1	1	1	10
Suicide	2				5	1	1	2			1	2	14
Surgical shock	1			1									2
Drowning							1						1
Alcoholism							1						1
XIII													
Unknown					1								1
Total	106	102	124	117	95	86	94	70	171	334	88	146	1533
Population (estimated)	91,000												
Death rate per thousand	16.84												

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as actinomycosis, anterior poliomyelitis, anthrax, Asiatic cholera, cerebro-spinal meningitis, chicken-pox, diphtheria, dog-bite (requiring anti-rabic treatment), dysentery, German measles, glanders, hookworm disease, infectious disease of the eye, influenza, leprosy, malaria, measles, mumps, pellagra, plague, pneumonia (lobar only), rabies, scarlet fever, septic sore throat, small pox, tetanus, trichinosis, tuberculosis (all forms), typhoid fever, typhus fever, whooping cough, yellow fever, are infectious, or contagious and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the board every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose. On receipt of a card from a physician, the principal of the school in the district in which the patient resides, the librarian of the public library and state board of health are notified.

Specimens and Supplies.

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vaccine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:—

R. A. Peckham, 154 Perkins street.
Edward Edwards, 25 Union square.
Willis S. Furbush & Co., 1153 Broadway.
Hall Drug Co., Hobbs building, Davis square.
Ernest B. McClure, 529 Medford street.
John Morrison, 288 Highland avenue.
Richardson Pharmacy, 310 Broadway.
George E. Wardrobe, 693 Broadway.

Hereafter the Agent of this Board will collect, daily, at five o'clock, p. m., all specimens left at culture stations for examination, prior to that hour.

Physicians desiring reports on the following day, of specimens taken after this collection has been made must deposit the same at the City Hall Annex, in the receptacle provided, before nine-thirty p. m.

Results of all examinations of specimens received at the City Hall Annex prior to nine-thirty p. m., will be reported to the physicians on the following morning.

Influenza.

In the fall and winter of 1918 the Board of Health had to cope with an epidemic of influenza.

September 25th, 1918 a regulation was adopted by the Board of Health, making influenza a reportable disease from September 15, 1918, which first gave an idea of the extent of this disease.

Influenza was made reportable by the State Department of Health, October 5, 1918.

There was a steady increase in the number of cases reported to October 4, when the disease reached its height, then a gradual decline to December 5, when there appeared a recrudescence which reached its height on December 30.

The total number of cases of influenza and its complications reported to the Board of Health, from September 15, 1918, to December 31, 1918, inclusive, was 9,410, with a mortality of 332.

The mortality rate of this city, per thousand of population, increased from 11.77 in 1917 to 16.84 in 1918, primarily due to influenza and its complications of pneumonia:

Owing to lack of hospital accommodations, it became necessary to open an emergency hospital, which was done September 30, 1918, when the Board of Health, in conjunction with His Honor, the Mayor, and the Committee on Public Safety hired the buildings at Nos. 12 and 14 Pleasant Avenue.

The hospital was operated from September 30, to November 30, inclusive, covering a period of thirty-nine days.

During that time ninety patients were given 754 days of treatment, an average of 8.377 days per patient. There were thirty deaths.

Table Showing Comparison Between 1917 and 1918 in Prevalence, Deaths Reported and Percentage of Deaths of Scarlet Fever, Diphtheria, Typhoid Fever and Tuberculosis.

MONTHS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.				TUBERCULOSIS ALL FORMS.					
	Cases Reported.		Number of Deaths.		Percentage of Deaths.		Cases Reported.		Number of Deaths.		Percentage of Deaths.		Cases Reported.		Number of Deaths.		Percentage of Deaths.	
	1917	1918	1917	1918	1917	1918	1917	1918	1917	1918	1917	1918	1917	1918	1917	1918	1917	1918
January.....	12	12	.....	.....	.....	.....	15	17	1	3	6.6	16.47	14	15	4	9	28.0	60.0
February.....	15	17	1	.....	6.6	.....	24	14	4	2	16.6	14.29	13	16	7	6	77.7	37.5
March.....	35	14	.....	.....	.....	.....	28	25	3	2	10.7	8.00	9	13	14	9	107.6	47.2
April.....	24	14	1	.....	4.1	.....	25	24	1	4	4.0	6.67	17	21	7	7	41.2	33.3
May.....	13	14	.....	.....	.....	.....	30	20	4	.....	13.3	.....	11	21	10	8	71.1	38.1
June.....	12	3	.....	.....	.....	.....	18	16	1	1	5.5	6.25	2	13	8	6	34.7	46.1
July.....	14	3	.....	.....	.....	.....	19	15	2	1	10.5	6.67	2	12	4	9	33.3	52.2
August.....	3	1	.....	.....	.....	.....	6	12	1	1	16.6	8.33	2	11	3	4	21.1	30.9
September.....	6	3	1	.....	16.6	.....	7	19	1	1	14.2	5.26	5	21	9	6	28.6	90.8
October.....	14	5	.....	.....	.....	.....	21	14	1	1	4.7	7.14	2	7	7	8	33.3	114.3
November.....	27	6	.....	.....	.....	.....	24	53	3	1	12.5	1.88	4	12	4	6	33.3	175.0
December.....	34	11	.....	.....	.....	.....	38	31	2	2	5.2	6.45	2	14	11	4	78.6	36.3
Total.....	209	103	3	.....	1.4	.....	255	260	24	19	9.4	7.3	25	184	85	84	46.2	50.3

Deaths from Scarlet Fever, Diphtheria, Typhoid Fever, and Tuberculosis in the Last Ten Years.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.										TUBERCULOSIS ALL FORMS.															
	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918						
January	2	1	1	1	1	1	1	1	1	3	4	5	1	1	1	1	4	3	3	1	3	1	1	1	1	1	1	1	1	1	9	10	5	12	9	8	8	16	7	5	4	9				
February	1	1	1	1	1	1	1	1	1	2	3	4	4	4	2	2	4	3	3	4	2	1	1	1	1	1	1	1	1	11	6	13	11	10	14	10	16	10	16	7	6					
March	3	1	1	1	1	1	1	1	1	1	3	3	3	3	3	2	4	3	2	1	1	1	1	1	1	1	1	1	1	8	8	5	10	6	9	10	10	14	9	10	14	9				
April	2	1	1	1	1	2	1	1	1	1	2	2	1	1	1	4	2	2	4	1	1	1	1	1	1	1	1	1	1	3	7	9	4	8	5	3	11	7	7	11	7	7				
May	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	4	2	2	4	1	1	1	1	1	1	1	1	1	1	10	7	6	13	8	8	5	3	10	8	5	10	8				
June	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	10	12	10	4	7	8	5	9	8	6	9	8	6				
July	1	2	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	5	9	11	5	5	7	3	4	4	4	4	4	4				
August	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	2	10	9	7	6	9	8	3	9	8	3	9				
September	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	7	6	4	3	4	11	6	8	11	6	8				
October	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	9	10	6	2	10	6	1	8	7	8	10	4	6				
November	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	5	6	5	9	7	6	10	4	6	10	4	6	10	4	6		
December	2	1	1	1	1	2	1	1	1	1	4	3	1	3	1	4	2	2	2	1	1	1	1	1	1	1	1	1	1	7	11	11	10	4	14	6	6	11	4	6	6	11	4	6		
Total	9	5	3	2	4	11	4	2	3	...	27	20	15	14	13	25	18	21	24	19	8	6	6	4	6	6	11	1	6	2	90	92	99	91	87	95	74	108	85	84	108	85	84	108	85	84

Table of Deaths During the Last Ten Years.

Year.									No. of Deaths.	Rate per 1,000.
1909	.	.	.	.	.	.	.	.	988	13.08
1910	.	.	.	.	.	.	.	.	1,043	13.45
1911	.	.	.	.	.	.	.	.	1,035	12.93
1912	.	.	.	.	.	.	.	.	983	12.13
1913	.	.	.	.	.	.	.	.	993	12.11
1914	.	.	.	.	.	.	.	.	990	11.65
1915	.	.	.	.	.	.	.	.	1,003	11.55
1916	.	.	.	.	.	.	.	.	1,081	12.01
1917	.	.	.	.	.	.	.	.	1,067	11.85
1918	.	.	.	.	.	.	.	.	1,533	16.84
Average death rate per 1,000 for ten years										12.73

Table Showing the Five Principal Causes of Death in Somerville in 1918.

PNEUMONIA.		INFLUENZA.		ARTERIO SCLEROSIS.		HEART DISEASE.		TUBERCULOSIS ALL FORMS.	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
323	35.0	213	22.2	133	14.6	96	9.8	85	9.3

Medical Inspection of Schools.

The medical inspection of the schools of Somerville, which was instituted in December, 1907, has been continued during the year. The value of the system has been constantly demonstrated, and the work has been done in a very satisfactory manner. There has been harmony of action between the board of health and the school board, and the school principals and teachers have very generally co-operated with the inspectors in making the system as successful as possible.

The inspectors make daily visits to the schools under their charge, and to them are referred all children who show evidences of disease or abnormal conditions. Children who are found to be unfit to remain in school are sent home, accompanied by a slip properly filled out advising that the family physician be consulted. The inspectors also make an annual inspection of all the children in the schools, and any defects discovered are called to the attention of the parents. Monthly inspections of the school buildings and premises are made, and suggestions or criticisms are referred to the proper authorities. Every effort is made to protect the health of the children and to co-operate with the parents in keeping the children in as normal a condition as possible.

In accordance with the provisions of the statute, tests of sight and hearing are made by the principals or teachers.

The districts and inspectors are as follows:—

District No. 1.—Eastern Junior High, Prescott, Hanscom, Edgerly and Boys' Vocational schools. Inspector, Dr. Francis Shaw, 57 Cross street.

District No. 2.—Baxter, Knapp, Perry and Southern Junior High schools. Inspector, Dr. Edward J. Dailey, 46 Bow street.

District No. 3.—Bennett, Pope, Cummings and Proctor schools. Inspector, Dr. L. H. Raymond, 146 Highland avenue.

District No. 4.—Morse, Carr, Durell, Burns and Girls' Vocational schools. Inspector, Dr. W. L. Bond, 322 Highland avenue.

District No. 5.—Brown, Bingham, Forster and Northern Junior High schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

District No. 6.—Western Junior High, Lincoln, Highland, Cutler and Lowe schools. Inspector, Dr. H. Cholerton, 94 College avenue.

District No. 7.—Glines and High schools. Inspector, Dr. Edgar F. Sewall, 281 Broadway.

Parochial Schools.—Inspector, Dr. M. W. White, 21 Walnut street.

During the year, 8,921 children have been referred to the inspectors during their daily visits, and 394 have been sent home because of illness.

The following list will show the classes of diseases and defects which have been found in the schools, except defects of sight and hearing:—

List of Diseases and Number of Cases Reported.

1. Infectious diseases:—

Measles	1,280
Whooping cough	23
Chicken pox	151
Mumps	16
Scarlet fever	5
Tuberculosis	2
Influenza	903

Total	2,380
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2. Diseases of the nose and throat:—

Enlarged tonsils and adenoids	1,961
Inflammatory diseases	356
Other abnormal conditions	187

Total	2,504
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3. Diseases of the eyes:—

Inflammatory conditions of the eyes and lids	94
Foreign bodies and injuries	3
Other abnormal conditions	28

Total	125
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4. Diseases of the ears:—

Inflammatory conditions	12
Other abnormal conditions	6

Total	18
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5. Diseases of the skin:—

Pediculosis	2,394
Impetigo	105
Scabies	37
Eczema	125
Tinea	7
Herpes	19
Miscellaneous conditions	701

Total	3,388
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6. Miscellaneous diseases:—

Constitutional diseases	
Diseases of the digestive system	208
Diseases of the respiratory system	126
Diseases of the circulatory system	1
Diseases of the lymphatic system	6
Diseases of the nervous system	2
Wounds and injuries	11
Diseases of the teeth	2
Other conditions	150

Total	506
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Total number of diseases reported	8,921
Vaccinations performed	126
Examinations for vaccinations	5,654
Certificate to work	1,455

Bacteriological Department.

The work of this department has been performed during the last year by Herbert E. Bowman, Ph. G., Inspector of Milk and Vinegar.

Dr. Frank L. Morse, Medical Inspector of this Board, is still in the service of the U. S. Army, having been recently commissioned as a lieutenant-colonel.

Undertakers.

Under the provisions of Section 44 of Chapter 78 of the Revised Laws of 1902, twenty-one persons have been duly licensed as undertakers.

Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan

C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

Health Nurses.

There are, at present, two nurses employed by this Board as school nurses. It is very necessary and this Board recommends that two or more nurses be appointed and that all these nurses be employed as health nurses their duties to be determined by this Board as necessity requires.

R. M. LAVENDER, Chairman,
WARREN C. BLAIR,
JOHN E. GILLIS, M. D.
Board of Health.

Attest:

LAURENCE S. HOWARD.

Report of Inspector of Animals and Provisions

Somerville, Mass., January 1, 1919.

To the Board of Health, Somerville, Mass.:—

Gentlemen,—Following is the report of the inspector of animals and provisions, including tables showing the amount of work accomplished.

Articles Condemned.

Eggs.

6 dozen.

Fish.

Haddock, 199 pounds; Halibut, 327 pounds; Lobsters, 12 pounds; Mackerel, 160 pounds; Oysters, 2 gallons; Salmon, 3 pounds; Sword Fish, 6 pounds.

Fruit.

Apples, 12 boxes; Apples, 14 bushels; Bananas, 64 dozen; Blackberries, 12 quarts; Blueberries, 8 quarts; Canteloupes, 19 crates; Grapes, 7 baskets; Grapes, 2 crates; Grape Fruit, 9 boxes; Grape Fruit, 150 single; Lemons, $3\frac{1}{2}$ boxes; Oranges, 1 box; Pears, $1\frac{1}{2}$ bushel, Pears, 5 baskets; Plums, 6 baskets.

Meats.

Beef (corned), 406 pounds; Beef (fresh), 170 pounds; Corned Shoulder, 49 pounds; Fowl, 251 pounds; Hamburg Steak, 33 pounds; Lamb, $171\frac{1}{2}$ pounds; Liver, 57 pounds; Mutton, 20 pounds; Pork (fresh), 132 pounds; Pork (salt), 100 pounds; Swine, 11 whole; Sausages, 20 pounds, (Frankfurter); Sausages, 13 pounds (fresh); Veal, 192 pounds.

Vegetables.

Asparagus, 31 bunches; Beans (shell), 10 bushels; Beans, (string), 1 bushel; Beets, 3 bushels; Cabbages, 14 barrels; Carrots, 1 bushel; Celery, 1 bushel; Celery, 3 dozen; Greens, 2 barrels; Greens, 12 bushels; Lettuce, 11 bushels; Lettuce, 8 dozen; Onions, 31 bushels; Parsnips, 1 bushel; Potatoes (white), 9 bushels; Potatoes, (sweet), 3 bushels; Squash, $12\frac{1}{2}$ bushels; Turnips, 2 bushels; Turnips, 2 barrels.

There have been less articles condemned during the past year, than for many years previous, owing to the fact that dealers have been obliged to purchase their stock very conservatively and thereby no large surplus has been carried by any dealer. As a rule their stock has been fresh and in good condition.

Inspections for 1918.

The following table shows the number of inspections made during the past year. Constant supervision is kept over all establishments handling food products, to safeguard the consumer. Bakeries, lunch-carts and restaurants have each been inspected weekly.

Conditions in the Ice Cream and Candy Factories in the city are greatly improved. All factories in the city have been inspected monthly. A constant inspection is made of Barber Shops and they are required to be kept in a sanitary condition, at all times, and the barbers to keep themselves neat and clean and to properly sterilize their utensils.

Many of the factories have been renovated and in some instances new toilet facilities have been installed.

In December one of the largest and best equipped bakeries in New England was erected on Joy Street and is now in operation and is a valuable addition to the many industries of the city.

Bakeries	329	Milk and Cream Plants	101
Barber Shops	450	Pedlers	1,930
Candy and ice cream plants	149	Public Halls	31
Factories	274	Rendering Plants	119
Fish Markets	563	Slaughter Houses	304
Grease Wagons	83	Stores and Markets	3,072
Hen Houses and Yards	399	Stables	310
Hide Houses	57	Theatres	16
Houses and Cellars	126	Vacant Lots	97
Laundries	40	Yards and Cellars	605
Lunch Rooms	619		

Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments and of all animals for infectious diseases. All the slaughter houses have been thoroughly renovated during the past year. New toilets have been installed with shower baths and separate retiring rooms for females owing to the large number being employed by reason of war conditions.

These plants were never in a more sanitary condition than at present.

The business is continuing to increase in this city and during the last year Somerville was one of the largest Slaughtering centers in the United States and the largest in New England.

Number of Animals Slaughtered in 1918.

Swine	.	.	.	.	.	.	.	.	.	1,300,666
Sheep	.	.	.	.	.	.	.	.	.	235,965
Calves	.	.	.	.	.	.	.	.	.	113,695
Cattle	.	.	.	.	.	.	.	.	.	39,330
Total	.	.	.	.	.	.	.	.	.	1,689,656

Animals.

There has been a steady decrease of glanders in this city for the past five years, and I believe it is due in part to discontinuance of public drinking fountains for horses, and a thorough disinfection of stables and blacksmith shops. Each stable and shop is now in first class sanitary condition. In 1913 there were 55 horses killed for glanders: in 1914, 30: in 1915, 10; in 1916, 13, but eight of these were in one stable: in 1917, 9, and in 1918, only 7 were killed, thus showing a large decrease in the disease.

Animals Examined in 1918 for Contagious Diseases.

	Inspected	Quaran- tined	Killed	Released
Horses	1,815	8	7	1
Swine	1,175	56	5	51
Cows	34	....	....	....
Mules	5	....	....	....
Goats	11	....	....	....
Total	3,035	64	12	52

As agent of the board of health, I have been on duty nights and Sundays most of the time to convey patients to the Contagious Hospital, by ambulance.

Respectfully submitted,

CHARLES M. BERRY,

Inspector of Animals and Provisions.

Report of the Medical Inspection.

Somerville, Mass., January 1, 1919.

To the Board of Health of the City of Somerville:—

Gentlemen:—I herewith present the report of the acting medical inspector for the year 1918, including the statistics of the contagious disease hospital.

Frank L. Morse, M. D., medical inspector of this Board, is still in the service of the U. S. and has been commissioned as a lieutenant colonel.

C. Clarke Towle, M. D., resigned as acting medical inspector, October 28, 1918; Herbert E. Buffum, M. D., served from October 29, to November 8, 1918, and Ralph F. Hodgdon, M. D., has filled the position since November 9, 1918.

Visits.

Scarlet Fever.—Each case has been inspected before release from quarantine and 104 visits were made at the homes of patients to determine that the condition of the patient was suitable for release.

Diphtheria.—Before patients are released from quarantine two successive negative cultures must be obtained and during the year 174 visits were made for this purpose.

Daily visits have been made at the contagious hospital.

Contagious Disease Hospital.

Diseases	Admitted	Discharged,	
		Well, or Improved	Dead
Scarlet Fever	22	26	
Diphtheria	149	135	14
Tuberculosis	33	23	17
Erysipelas	4	3	1
Measles	3	1	1
Pneumonia	3		4
Cerebro-spinal Meningitis	1		1
Influenza	2	1	1
	217	189	38

The daily average of patients was 5.91 in the contagious department and 11.96 in the tuberculosis department, a total of 17.87.

Respectfully submitted,

RALPH F. HODGDON, M. D.,
Acting Medical Inspector.

Report of the Inspector of Milk and Vinegar and Acting Bacteriologist.

CHEMICAL AND BACTERIOLOGICAL LABORATORY,
City Hall Annex,
Somerville, Mass., January 1, 1919.

To the Board of Health of the City of Somerville:—

Gentlemen:—I herewith present my annual report for the year ending December 31, 1918.

On the above date there were in this city licensed to sell milk, 400 stores and 58 dealers, and 133 stores to sell oleo-margarine.

Of the 58 dealers, 24 are located in this city and 34 in the neighboring cities and towns, and 6 dealers have discontinued business.

There are approximately 23,000 quarts of milk and 1,800 quarts of cream distributed in Somerville daily, and 18 dealers are pasteurizing their milk according to Statute Chapter 259, Acts 1917.

Table 1.

Months.	Licenses Issued.	License Fees.	Analytical Fees.	Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.
January	7	3.50	.....	3.50	4.00	7.50
February	7	3.50	1.00	4.50	32.50	37.00
March	25	12.50	.....	12.50	29.00	41.50
April	17	8.50	.....	8.50	45.00	53.50
May	323	161.50	3.00	164.50	92.50	257.00
June	124	62.00	4.00	66.00	71.50	137.50
July	16	8.00	.....	8.00	63.50	71.50
August	5	2.50	1.00	3.50	98.00	101.50
September	15	7.50	.....	7.50	67.00	74.50
October	23	11.50	.....	11.50	101.00	112.50
November	11	5.50	.....	5.50	22.25	27.75
December	18	9.00	.....	9.00	15.00	24.00
Total	591	295.00	9.00	304.50	641.25	945.75

Table 2.
Samples of Milk, Cream, Ice Cream and Vinegar Examined.

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples left at Office.	Total Examina- tions.
January	212	146	154	512	6	518
February	310	126	80	516	75	591
March	208	99	59	366	54	420
April	235	99	40	374	88	462
May	240	80	40	360	171	531
June	242	100	40	382	192	574
July	240	158	40	438	216	654
August	151	155	87	393	283	676
September	179	41	42	262	213	475
October	290	74	54	418	232	650
November	140	84	110	334	46	380
December	64	80	67	211	29	240
Total	2511	1242	813	4566	1605	6171

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Temperature Notices.	Total Notices.	Inspections.
January	2	15	10	.....	27	65
February	11	18	24	.....	53	170
March	24	19	11	.....	54	26
April	32	14	1	0	47	60
May	28	19	12	18	77	18
June	13	12	12	4	41	60
July	26	12	3	12	53	42
August	23	15	24	.....	62	24
September	14	8	4	.....	26	14
October	3	4	2	.....	9	11
November	16	17	16	.....	49	12
December	2	0	4	.....	6	26
Total	194	153	123	34	540	528

City Inspection.

It was decided by the Board of Health that during 1918 the standing of each dealer, selling milk in Somerville, should be published monthly. It was hoped that this method would stimulate a healthy rivalry among the dealers and improve the quality of the milk delivered in this City. In accordance

with the plan the lists were published in the Somerville papers each month. Much interest was at once shown by the medical profession and also by consumers who were forced to resort to bottle feeding for infants. Pint samples were taken from the dealers' wagons and forwarded to the laboratory for analysis, both chemical and bacteriological, and the dealers notified of the result prior to its publication.

These monthly lists have been averaged and a table showing the yearly averages of each dealer follows:—

Name of Dealer	Bacteria per C. C.			
	Butter Fat	Total Solids	Maximum	Past.
	Legal	Legal	Allowed	or
	Standard	Standard	Raw 500,000	Raw
	3.35%	12.00%	Past. 100,000	
Acton Farms Milk Co.....	3.79	12.24	163,000	Past.
A. H. Andrews	3.71	12.09	174,000	Raw
J. Basher & Sons.....	3.84	12.07	1,187,000	Raw
H. E. Bemis	3.78	12.22	108,000	Raw
H. C. Bennison	3.55	11.87	598,000	Past.
H. A. Bergman	3.83	12.37	729,000	Past.
E. E. Breen	3.76	12.29	378,000	Past.
A. W. Cummings	3.94	12.38	1,275,000	Raw
F. S. Cummings	3.84	12.34	136,000	Past.
J. F. Dillon	3.63	12.11	381,000	Raw
F. E. Edgerly	3.96	12.49	803,000	Raw
A. F. P. Gassett.....	3.97	12.36	1,340,000	Raw
F. E. Giles	3.70	12.25	123,000	Past.
J. E. & H. J. Giroux.....	3.87	12.30	284,000	Raw
B. J. Griffin	3.80	12.30	360,000	Raw
J. P. Griffin.....	3.69	12.18	818,000	Raw
J. M. Hager & Son.....	3.72	12.38	536,000	Past.
F. E. Harris	3.63	12.07	365,000	Raw
H. P. Hood & Sons.....	3.84	12.49	73,000	Past.
Kendall Brothers	3.69	12.19	337,000	Raw
Maple Farm Milk Co.....	3.74	12.20	224,000	Past.
A. T. Martin	3.66	12.20	243,000	Past.
E. M. Monahan	4.00	12.62	976,000	Raw
R. J. Moody	3.71	12.16	652,000	Past.
W. F. Noble	3.98	12.41	189,000	Past.
P. O'Shaughnessy	3.77	12.26	591,000	Raw
S. E. Paige	3.74	12.21	327,000	Raw
H. A. Prescott.....	3.71	12.14	117,000	Past.
T. F. Ronayne	3.75	12.14	117,000	Raw
Seven Oaks Dairy	3.79	12.51	102,000	Raw
M. P. Shattack	3.63	12.23	130,000	Raw
H. L. Stone	3.76	12.20	156,000	Past.
Swenson Brothers	3.75	12.31	117,000	Raw
F. P. & F. S. Thompson.....	3.81	12.40	439,000	Raw
Toothaker Brothers	3.75	12.17	133,000	Past.
Turner Centre Creamery Co.....	4.03	12.74	225,000	Past.
A. S. Tyler.....	3.88	12.50	299,000	Raw
E. L. Tyler.....	3.61	12.07	242,000	Raw
D. Whiting & Sons	3.79	12.36	75,000	Past.
J. K. Whiting Co.....	3.76	12.27	275,000	Past.
C. A. Woodbury	3.77	12.24	94,000	Raw

The higher the fat and solids the greater the food value. The lower the bacterial count, the greater care in production, better handling or more efficient pasteurization is shown. The analysis of special grades of milk supplied on request.

This method of giving publicity of the quality of the milk sold by the dealers has resulted in a marked improvement in the method of handling milk and it will be noted that only one dealer had a yearly average below the chemical standard.

It has also relieved the dealers from constantly appearing in court on a criminal charge as the Board of Health hoped that the publicity given the lists would be sufficient incentive to keep the milk of good standard quality. The yearly average has proven to be very satisfactory, though, at times during the year, there has been much to be desired in the bacteriological count. Taken as a whole, the experiment has been successful and it is hoped that during the coming year a much greater improvement will be noted. Like all experiments, the first year has been the hardest and the department feels that improvement will be much more rapid from now on.

On December 1st, Mr. George E. Plimpton resigned from the position of milk collector to accept a position in a commercial laboratory.

By reference to table one it will be noted that the income for the year credited to this department is the largest since the department was established. Table two shows another increase, the total work of the laboratory being in excess of any previous year.

Table 4.—Infantile Mortality.

Year.	Births.	Deaths under 1 year, all causes.	Deaths under 1 year, enteric diseases.	Enteric Death Rate per 10,000 population under 1 year.	Population.
1914.....	1992	147	33	3.92	84,000
1915.....	1898	142	25	2.90.	86,000
1916.....	1952	132	23	2.58	89,000
1917.....	2035	136	18	2.00	90,000
1918.....	Returns Incomplete.	188	18	1.97+	91,000

Notwithstanding the fact that the birthrate is increasing yearly, the deaths from enteric diseases were the same as

the previous year and shows the lowest percentage of deaths from this cause in the history of the City.

DIAGNOSTIC EXAMINATIONS.

Diphtheria.

Months	Negative	Positive	Total
January	95	7	102
February	76	8	84
March	118	20	138
April	78	32	110
May	88	28	116
June	63	30	93
July	72	31	103
August	40	22	62
September	70	17	87
October	50	9	59
November	146	43	189
December	136	32	168
Totals	1,032	279	1,311

Tuberculosis.

January	29	12	41
February	20	6	26
March	38	10	48
April	32	6	38
May	26	9	35
June	15	8	23
July	15	7	22
August	11	9	20
September	10	9	19
October	17	5	22
November	15	5	20
December	18	6	24
Totals	246	92	338

Typhoid.

January	11	0	11
February	2	0	2
March	2	0	2
April	14	1	15
May	8	1	9
June	3	1	4
July	11	2	13
August	10	0	10
September	7	0	7
October	16	3	19
November	4	2	6
December	2	0	2
Totals	90	10	100

Total Examinations 1763.

In addition to above there have been 14 examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhea, and Pneumonia.

Respectfully submitted,

HERBERT E. BOWMAN,

Inspector of Milk and Vinegar and Acting Bacteriologist.

SUPPORT OF POOR DEPARTMENT

Board of Overseers of the Poor.

HENRY F. CURTIS, M. D., President.

ALBERT W. EDMANDS, Vice-President, (Died October 14, 1918).

FRED E. DURGIN, (Appointed October 29, 1918).

MICHAEL COLL.

Committees.

On Finance, Investigation and Relief, and City Home.

DR. CURTIS, MR. DURGIN AND MR. COLL.

Clerks.

JEAN M. HUTCHINS.

CORA F. LEWIS.

General Agent.

CHARLES C. FOLSOM, (Retired December 28, 1918).

Acting General Agent.

JEAN M. HUTCHINS.

City Physician.

C. CLARKE TOWLE, M. D.

Warden and Matron, City Home.

MR. AND MRS. J. FOSTER COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

Somerville, Mass., December 31, 1918.

To His Honor, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen,—The report of the acting general agent, the warden of the City Home and the city physician, with tables showing the work, are herewith submitted.

Respectfully submitted,

HENRY F. CURTIS,

MICHAEL COLL,

FRED E. DURGIN,

*Overseers
of the
Poor.*

REPORT OF ACTING GENERAL AGENT.

CITY HALL ANNEX, January 1, 1919.

To the Overseers of the Poor, Somerville, Mass:—

Gentlemen,—I submit the following as the report of the acting general agent for the year ending December 31, 1918:—

Table No. 1.

FULL SUPPORT (During the year).

In City Home, (men 49, women 32)	81
In City Home, December 31, 1918	47
In private families	19
In hospitals for the sick in other towns, cities and state .	46
In care of state division minor wards (children) . . .	10

Table No. 2.

PARTIAL SUPPORT (Outside Relief).

Families	324
Persons aided (including hospital cases)	1321
Burials	8
Permits to State Infirmary	14
Average expense to the city for each (carriage for five) .	\$2.37

Table No. 3.

AID UNDER 1913 LAW (Mothers' Aid).

Number of applications from widows or deserted women .	91
Number of families aided at close of year	67
Number of children	207
Amount allowed each family, from \$2.00 to \$12.00 per week	
Number of out-of-town families	10
Number having no settlement	13

COST TO CITY.

Somerville settlement	\$13,988 79
Settled in other cities and towns (reside here)	3,479 29
State	3,667 85
Somerville families living in other cities and towns . .	1,163 91
	<hr/>
	\$22,299 84

Table No. 4.

REIMBURSEMENTS.

Commonwealth of Massachusetts	\$12,543 21.
City of Boston	2,488 93.
“ “ Brockton	118 40.
“ “ Cambridge	2,578 60.
“ “ Chelsea	88 00
“ “ Everett	397 54
“ “ Lynn	15 00.
“ “ Melrose	170 50
“ “ Newton	105 00.
“ “ North Adams	259 80
“ “ Woburn	199 36
Town of Arlington	173 34.
“ “ Cohasset	42 67
“ “ Duxbury	298 66.
“ “ Hudson	18 00.
“ “ Sterling	100 00
Individuals	100 00.
	<hr/>
	\$19,697 01

Table No. 5.

SOMERVILLE HOSPITAL (Patients on City Beds).

Patients having settlement in Somerville	89.
Patients having settlement in other cities and towns	31
Patients having no settlement (chargeable to State)	45
Total number of patients sent to hospital	165.
Money paid hospital by the City	\$6,593 57
Amount reimbursed to the City and paid to the hospital for patients not settled in Somerville	1,263 26
Total paid to the hospital	<hr/> \$7,856 83.

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1883 TO 1918, INCLUSIVE.

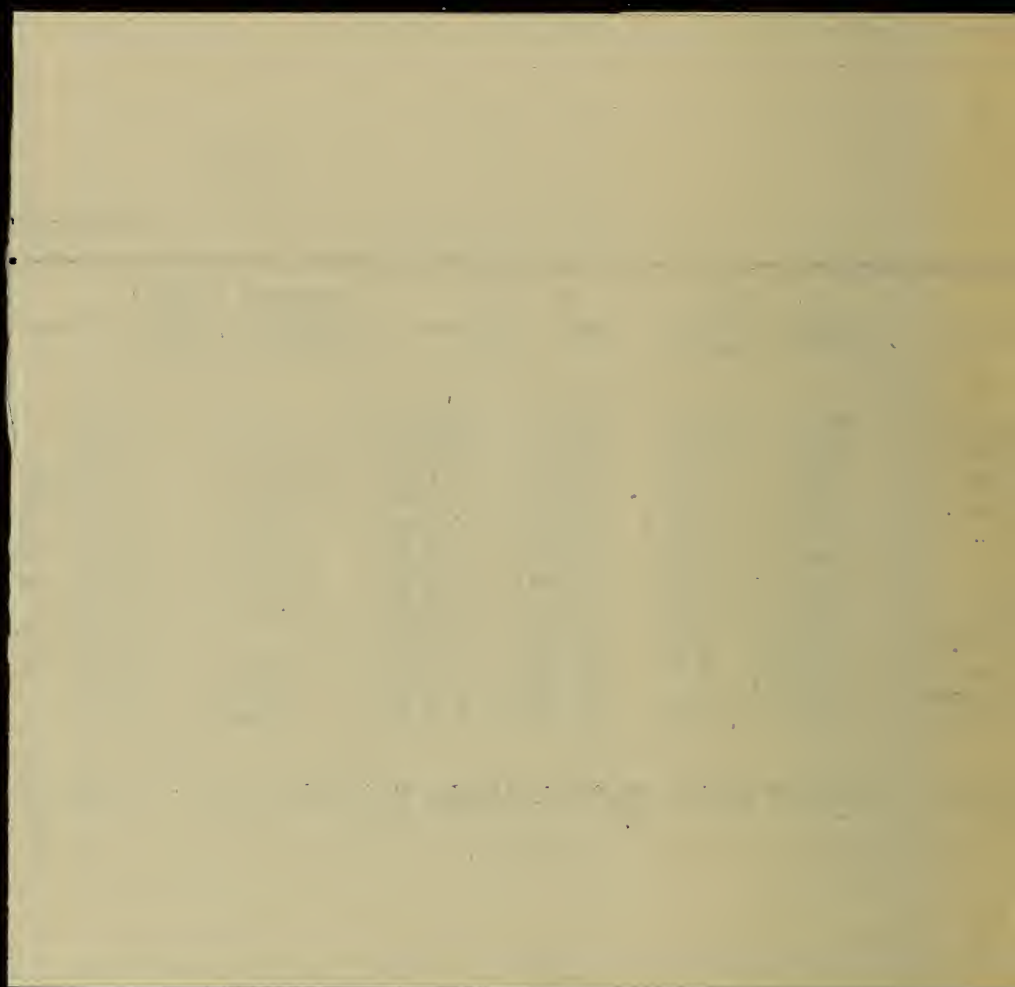
Year	Population (Estimated)			
1883 . . .	27,000	.	.	\$15,959 30
1884 . . .	28,000	.	.	17,272 52
1885 . . .	*29,992	.	.	16,430 32
1886 . . .	32,000	.	.	14,341 83
1887 . . .	34,000	.	.	13,430 89
1888 . . .	36,000	.	.	13,375 98
1889 . . .	39,000	.	.	14,610 92
1890 . . .	*40,117	.	.	15,261 14
1891 . . .	43,000	.	.	15,980 49
1892 . . .	46,000	.	.	17,015 30
1893 . . .	48,000	.	.	17,799 58
1894 . . .	50,000	.	.	19,733 13
1895 . . .	*52,200	.	.	20,755 46
1896 . . .	54,000	.	.	21,999 79
1897 . . .	56,000	.	.	25,681 47
1898 . . .	57,500	.	.	28,522 21
1899 . . .	60,000	.	.	28,924 39
1900 . . .	*61,643	{	Miscellaneous, \$23,697 62 }	29,226 45
		{	City Home, 5,528 83 }	
1901 . . .	62,500	{	Miscellaneous, \$29,171 15 }	35,793 58
		{	City Home, 6,622 43 }	
1902 . . .	63,500	{	Miscellaneous, \$28,667 04 }	36,063 68
		{	City Home, 7,396 64 }	
1903 . . .	65,500	{	Miscellaneous, \$30,470 20 }	38,018 59
		{	City Home, 7,548 39 }	
1904 . . .	69,500	{	Miscellaneous, \$20,476 54 }	27,039 65
		{	City Home, 6,563 11 }	
1905 . . .	*69,272	{	Miscellaneous, \$17,527 88 }	25,002 24
		{	City Home, 7,474 36 }	
1906 . . .	72,000	{	Miscellaneous, \$18,237 53 }	25,044 32
		{	City Home, 6,806 79 }	
1907 . . .	74,000	{	Miscellaneous, \$17,852 20 }	24,853 43
		{	City Home, 7,001 23 }	
1908 . . .	75,500	{	Miscellaneous, \$17,955 34 }	24,830 90
		{	City Home, 6,875 56 }	
1909 . . .	75,500	{	Miscellaneous, \$16,843 17 }	24,406 00
		{	City Home, 7,562 83 }	
1910 . . .	*77,236	{	Miscellaneous, \$16, 42 }	23,806 31
		{	City Home, 7,695 89 }	
1911 . . .	78,000	{	Miscellaneous, \$16,327 56 }	24,169 59
		{	City Home, 7,842 03 }	
1912 . . .	81,000	{	Miscellaneous, \$19,201 33 }	28,200 30
		{	City Home, 8,998 97 }	
1913 . . .	82,000	{	Miscellaneous, \$21,827 73 }	32,773 68
		{	City Home, 10,945 95 }	
1914 . . .	85,000	{	Miscellaneous, \$35,619 68 }	46,819 93
		{	City Home, 11,200 25 }	
1915 . . .	88,000	{	Miscellaneous, \$45,490 98 }	56,709 63
		{	City Home, 11,218 65 }	
1916 . . .	90,000	{	Miscellaneous, \$51,759 62 }	63,353 03
		{	City Home, 11,593 41 }	
1917 . . .	90,000	{	Miscellaneous, \$53,653 33 }	67,071 10
		{	City Home, 13,417 77 }	
1918 . . .	90,500	{	Miscellaneous, \$63,420 48 }	78,831 63
		{	City Home, 15,411 20 }	

* Census.

Table No. 7.

EXPENDITURES IN DETAIL FOR THE YEAR 1918.

1918	Cash Allowance	Med. Att. and Medicine	Board.	Groceries.	Somerville Poor in other Cities and Towns.	Dry Goods and Shoes.	Burials.	Salaries.	Fuel.	Sundries.	Cash Paid Out.	Telephone.	Stationery and Printing.	Somerville Hospital.	State Institu- tions.	Other Institu- tions.	Nursing.	Somerville Poor in other Cities and Towns 1913 Law.	Total
January	\$35.07	\$19.14	\$209.44	\$885.00	.....	.....	.....	\$409.34	\$93.54	\$4.00	\$3,997.85	\$18.60	\$27.49	.....	.....	.....	.....	.....	\$5,699.47
February	34.00	17.30	366.11	564.80	\$1,517.60	.....	.....	429.74	.....	.....	2,582.05	9.16	3.30	.....	\$6.21	\$52.00	\$33.75	.....	5,616.02
March	35.07	10.00	153.31	447.00	587.62	.....	\$25.00	454.91	.....	41.00	2,817.86	8.93	8.75	\$2,000.00	.....	113.14	14.00	.....	6,716.59
April	34.72	29.50	114.50	444.00	595.73	.....	10.00	422.26	.....	20.83	2,533.15	9.50	14.75	2,040.45	7.69	.....	10.00	\$234.75	6,521.83
May	29.07	14.91	121.94	445.00	134.17	.....	25.00	479.91	2.80	37.08	2,769.61	8.93	14.30	1,314.27	.....	17.00	2.00	110.49	5,526.48
June	28.72	25.28	114.50	732.46	170.50	.....	15.00	507.26	.....	8.33	2,478.75	9.33	.....	522.86	.....	105.14	2.25	177.16	4,897.54
July	30.43	13.10	116.94	396.50	843.46	.....	59.00	430.60	.....	8.33	2,579.24	.....	3.68	261.43	150.55	.....	3.00	273.34	5,169.60
August	30.43	12.68	724.17	243.00	546.47	.....	.....	463.25	.....	11.33	2,831.96	19.48	25.00	661.15	.....	.....	8.50	.....	5,577.42
September...	30.29	18.17	97.85	291.00	.....	.....	56.00	430.60	.....	14.33	2,476.50	.....	16.21	430.95	.....	105.14	10.25	368.00	4,345.29
October	30.43	8.94	487.33	505.07	125.18	.....	.....	430.60	.....	8.33	2,712.75	15.42	20.11	276.43	83.00	.....	.....	.....	4,703.59
November...	30.29	.....	97.85	274.50	41.49	.....	.....	498.25	191.42	14.83	2,996.69	11.30	29.74	222.86	.....	.....	34.00	104.00	4,547.22
December....	30.43	50.67	451.78	170.50	167.88	.....	.....	427.01	199.00	8.36	1,732.50	.....	1.63	126.43	.....	.....	22.00	649.09	4,037.28
Totals	\$378.95	\$219.69	\$3,055.72	\$5,398.83	\$4,730.10	.....	\$190.00	\$5,383.73	\$486.76	\$176.75	\$32,508.91	\$110.65	\$164.96	\$7,856.83	\$247.45	\$392.42	\$139.75	\$1,916.83	\$63,358.33



OVERSEERS OF THE POOR OF SOMERVILLE

Since the reorganization in 1885.

†Hon. Mark F. Burns, chairman, ex-officio .	1885	1888	inclusive
†Col. Herbert E. Hill	1885	1889	"
†Charles S. Lincoln, Esq., chairman . .	1885	1887	"
†Hon. Edward Glines	1885	1887	"
†Charles G. Brett (president 1888-1892) .	1885	Apr. 1893	"
Edward B. West (president May, 1894- February, 1912)	1888	to 1912	"
†Daniel C. Stillson	1888	Apr. 1892	"
†Hon. Charles G. Pope, chairman ex-officio	1889	1891	"
†Nathan H. Reed (president 1893 to April, 1894	1890	Apr. 1894	"
†Hon. William H. Hodgkins, chairman ex- officio	1892	1895	"
†James G. Hinckley May, 1892	1894		"
†Albert W. Edmands May, 1893	Oct. 1918		(Died)
†Herbert E. Merrill May, 1894	1909		inclusive
†Ezra D. Souther 1895	Feb. 1898		(Died)
Hon. Albion A. Perry, chairman ex-officio	1896	1898	inclusive
James H. Butler March, 1898	1899		"
Hon. George O. Proctor, chairman ex-officio	1899		
Henry F. Curtis, M. D. 1910	to date*		inclusive
Philip Koen 1912	Nov. 9, 1916		"
Michael Coll November, 1916	to date*		"
Fred E. Durgin October, 1918	to date*		"

Table No. 8.

RECAPITULATION (Miscellaneous).

Expenditures and transfers	\$63,420 48
Reimbursements	19,697 01
Net cost to City	\$43,723 47

* Present member.

† Deceased.

Respectfully submitted,

JEAN M. HUTCHINS,

Acting General Agent.

REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1919.

To the Overseers of the Poor, Somerville, Mass:—

Gentlemen,—I submit the following as the report of the Warden of the City Home for the year ending December 31, 1918:—

Table No. 1.

Number of weeks' board of inmates	2,442-23
Number of males admitted during 1918	23
Number of females admitted during 1918	14
Number of males discharged during 1918	21
Number of females discharged during 1918	3
Number of males supported during 1918	49
Number of females supported during 1918	32
Number of males died during 1918	9
Number of females died during 1918	5
Number of inmates in home, December 31, 1918	47

City Home Hospital.

Number of weeks' board	498
Number of patients admitted	35
Number of patients in hospital, December 31, 1918	11

Table No. 2.

Reimbursements	\$10,043 73	
Net expenditures	5,367 47	
		\$15,411 20
Appropriation	14,500 00	
Service transfer	911 20	
		15,411 20

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.

REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN,
Somerville, January 1, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—The work of your City Physician during the year 1918 is presented in the following abstract:—

Office consultations and treatments	498
Total outside visits	1,527
Confinements	7
Vaccinations	123
Visits at City Home	136
Attended at police station	42
Examinations:—	
For legal department	22
For highway department	15
For police department	43
For fire department	24
For water department	2

Respectfully submitted,

C. CLARKE TOWLE,

City Physician.

REPORT OF THE PLANNING BOARD

December 31, 1918.

To His Honor the Mayor and Board of Aldermen:—

Gentlemen:—In accordance with the Acts of 1913 and as required by Section 2 of Chapter 494 of said Acts, the Planning Board herewith respectfully submits its annual report and recommendations for the year 1918.

During the year 1918 two new members were appointed by His Honor, Mayor Eldridge, namely George J. Rauh and Paul R. Valentine. The Board organized for the year by re-electing William F. Riley chairman, and David J. Kelley secretary, the other members being Harrison L. Evans, George J. Rauh and Paul R. Valentine.

The Board has been mindful of the duty delegated to it by the Act of the Legislature above mentioned, which requires it to carefully consider "the resources, possibilities and needs of the city." At the meetings of the Board held every month except July and August various matters relating to the general welfare of the city were discussed and the Planning Board was requested by the Board of Aldermen to report to it on two orders referred to the Planning Board for its consideration.

MYSTIC RIVER DEVELOPMENT.—The first order was adopted May 9, 1918, and related "to the practicability and advisability of the use of land bordering on the Mystic River for shipbuilding purposes."

After careful study of the question a report was submitted by the Planning Board to the Board of Aldermen, a copy of which is annexed to this report and marked "A."

The Board was of the opinion "that though it is highly advisable to do something to stop the waste of this navigable river which is a valuable asset of the City of Somerville, yet under existing conditions the use of land bordering on the river for shipbuilding purposes is not practicable."

SOMERVILLE HONOR ROLL.—The second order was adopted Oct. 15, 1918, and related to the planning of an "Honor Roll" for Somerville men in the military or naval service of our country.

The Planning Board submitted a report which is annexed to this report and marked "B." The Board was of the opinion that the City would do well to adopt the bronze frame plan

for a permanent "Honor Roll" so that "later on if the memorial hall becomes a reality this bronze frame could very easily be built into the wall of the new building with very little, if any, expense, and could then still fulfill its purpose."

The Board is still of the opinion that this is the best plan, especially in view of the fact that it can be erected in about six or eight weeks at the most.

STREET CAR SERVICE.—There is still much to criticize in the deplorable street car service furnished by the Boston Elevated Railway Company. Many complaints have been made about the lack of heat in the cars, as well as the insufficient service on all the car lines. Whatever may be said about the insufficient service, it is the opinion of the Board that the failure to properly heat the cars is inexcusable, and a menace to the health of the riding public, and should be immediately corrected.

ANNEXATION TO BOSTON.—With reference to the plan recently proposed by His Honor, Mayor Peters, of Boston, relating to the annexation of several surrounding cities including Somerville, it is the sense of this Board that such action at this time would not operate to the benefit or welfare of Somerville for the reason that it would tend to a lessening of the feeling of civic pride, which now exists, and also result in a neglect of needed public improvements.

PUBLIC PARKS AND BUILDINGS.—The Planning Board again recommends that a Playground be provided on the land owned by the city known as the City Ledge to adequately care for the needs of this rapidly growing section of our city in and about the Clarendon Hill section. The Board also respectfully calls your attention to the advisability of stopping the dumping of street scrapings and other refuse in the ledge because of the many complaints of the nuisance thereby created.

This matter is one that will not mean any great outlay of money and will be for the benefit of a large body of our citizens.

SOMERVILLE BATH HOUSE.—The Board again respectfully calls attention to the necessity of doing something at once to make the only bathing place in Somerville more attractive and popular with the people.

The Board recommends that the hills of mud now existing be levelled off or removed, and sand dumped into the river, so as to partly overcome the muddy condition.

BRANCH LIBRARY, UNION SQUARE.—The approaches to and conditions existing on the grounds surrounding this branch library are still unchanged, and are not a credit to the city. In view of the fact that the other sections of our city have been provided with new branch library buildings the Board is of the opinion that sufficient money should be appropriated to make this branch library, and the grounds surrounding it, creditable to Somerville. The needs of the residents of the Union Square section should be attended to, and something done to remedy this condition.

APPROPRIATION.—The Planning Board is anxious to do all in its power to further the objects for which it was created. An appropriation of \$50 was voted to the Board last year. It is obvious that this small sum is insufficient for its needs. The Planning Board was organized Jan. 9, 1914, and up to the present time it has no definite office space, and it is handicapped for lack of equipment to do its work. The Board has requested an appropriation of \$200 this year, and respectfully calls attention to the necessity of appropriating this amount so that it may be able to render more valuable service to the city.

WILLIAM F. RILEY,
Chairman.

HARRISON L. EVANS,
GEORGE J. RAUH,
PAUL R. VALENTINE,
DAVID J. KELLEY,
Secretary.

COPY A.

To the Honorable Members of the Board of Aldermen:—

Gentlemen:—On May 9, 1918, an order was adopted by your honorable body, and referred to the Planning Board the following, being a copy of the said order:—

“The Somerville Planning Board is hereby requested to make a study and report its findings to this Board in regard to the practicability and advisability of the use of land bordering on the Mystic River for shipbuilding purposes.”

F. W. COOK,
City Clerk.

In compliance with the foregoing order the Planning Board herewith respectfully submits the following report for your consideration.

The subject of the development of the Mystic River for commercial purposes has been discussed frequently in recent years, and efforts have been made from time to time to obtain the assistance of the National Government.

In 1892 the United States government dredged a channel in the Mystic River from the B. & M. Railroad bridge to the head of navigation or Craddock Bridge in Medford. This channel is about one hundred feet in width for about one mile, and gradually narrows in width until it is about fifty feet wide at the Craddock Bridge in Medford. At the Wellington Bridge in Somerville the channel is about fifty feet in width and the natural channel of the river at this point is about eight feet deep at mean low water. From the Boston & Maine Railroad bridge up to Craddock Bridge in Medford the river is very crooked and unsuitable for the navigation of vessels over one hundred fifty feet in length, and is not of sufficient depth to accommodate vessels of a size suitable for commercial purposes.

Somerville has about thirty-six hundred feet of water front on the Mystic River. Part of this is owned by the Boston & Maine Railroad and private parties, and another part of it is controlled by the Metropolitan Park Commission. The only shipping interest on the Mystic River in Somerville at the present time is the Somerville Coal Company, which occupies Dennings Wharf, so called. The river is so winding and the draft so shallow that only barges of light draft can use the river for commercial purposes.

In order to make the Mystic River suitable for launching ships which would be of sufficient size to be useful for commercial purposes the channel of the river must be widened and dredged, as the existing channel is obviously inadequate.

The United States government has refused to expend any money for this purpose in that part of the Mystic River running through Somerville and Medford for the following reasons:—

1. Difficulty in navigation on account of the many bends in the river.
2. The use of the largest part of the land on both sides of the river for park purposes.
3. The small number of business concerns using the river in their business either in Somerville or Medford.

The only section of the river worthy of consideration for shipbuilding purposes in the opinion of the Planning Board

is that section lying between the Boston & Maine railroad bridge, and the Wellington Bridge. The land on the river bank in this section is at present owned or controlled by the Boston & Maine Railroad.

In view of the fact that the United States government is not disposed at the present time to appropriate any money for the dredging or widening of the Mystic River and in the absence of any willingness on the part of local interests to spend money for this purpose the Planning Board is of the opinion that though it is highly advisable to do something to stop the waste of this navigable river which is a valuable asset of the City of Somerville, yet under existing conditions the use of land bordering on the river for shipbuilding purposes is not practicable.

As a remedy for this condition the Board suggests that your Honorable body urge upon our representative in Congress the necessity of some action towards securing an adequate appropriation so that this water way with the adjoining terminal facilities furnished by the Boston & Maine Railroad may be fully utilized, and the commercial interest of the City improved thereby.

At the same time it might be well to see whether or not the Commonwealth of Massachusetts can be urged through the efforts of our representatives in the Legislature to cooperate with the national government in the matter of development of the Mystic River.

In conjunction with this suggestion it might also be well to investigate the necessity or advisability of the present policy of the State in holding so much of the land adjoining the river for purely park purposes, which is one of the main objections to the appropriating of money by the national government.

It must be appreciated by your Honorable body that the subject of the development of the Mystic River for shipbuilding purposes, is of such a nature that it requires considerable time for investigation, and the expenditure of more money than is at present at the disposal of the Planning Board.

Respectfully submitted,

WILLIAM F. RILEY,
Chairman.

HARRISON L. EVANS,
GEORGE J. RAUH,
PAUL R. VALENTINE,
DAVID J. KELLEY,
Secretary.

COPY B.

To His Honor the Mayor and Members of the Board of Aldermen :—

Gentlemen :— On Oct. 15, 1918, an order was passed by the Board of Aldermen and forwarded to the Planning Board for attention, the following being a copy of said order :—

“The Planning Board is hereby requested to devise some form of publicity to be given the men of this city now in the military or naval service, to be known as the Honor Roll of Somerville.”

FREDERIC W. COOK,
City Clerk.”

In accordance with the request of the Board of Aldermen in the foregoing order the Planning Board herewith respectfully submits the following report for your consideration.

In devising an Honor Roll for men of Somerville in the military and naval service of our country the Board has endeavored to work out a design that will accommodate the six thousand or more names of these men, and yet be of suitable size so that the name of each man can be read distinctly.

In order to bring about this result the Planning Board, after careful study of the subject, determined that such an Honor Roll should be eight feet in length by four feet in width, and that it should be set up two feet from the surface of the ground.

The next question considered was the kind of construction which should be used in erecting the Honor Roll. With reference to this important matter two different plans were discussed.

One of the plans proposed was for the erection of a wooden Honor Roll fastened to a concrete foundation. It was proposed to have a plate glass front divided into two sections four feet square fastened in the centre and made weather tight. It was also proposed to have a lighting arrangement across the top of the Honor Roll. This plan called for the printing of the names on card board in alphabetical order, and of the same size type as shown by rough draft attached to the report. The estimated total cost of the erection of this type of Honor Roll would be about Five Hundred Dollars. Necessarily this would only be of a temporary nature.

The other plan considered was for the erection of a heavy

bronze bulletin frame of the same dimensions, viz.: 8 feet by 4 feet, divided into two sections each 4 feet square with a plate glass front, the whole to be mounted on a plain heavy oak back board and made weather tight.

This heavy bronze frame is to be fastened two feet from the ground on heavy oak posts sunk in a concrete base a distance of about four feet in the ground. The posts are to be about ten feet in length and will act as supports from the ground to the top of the frame. Along the top of the frame it is proposed that a lighting arrangement be installed. The printing plan is the same as in the wooden Honor Roll, except that it is proposed to have the names printed on sixteen sections of card board, each section to be fastened with a bronze strip screwed to the back board at intervals of every six inches to prevent the possibility of warping or bulging of the card board. It was also suggested that a star be printed beside the names of those men who died in the service of our country. The estimated cost of this plan would be about Sixteen Hundred Fifty Dollars, erected and complete in every detail. The time required to erect this Honor Roll would be about eight weeks.

In the opinion of the Planning Board this last mentioned plan is the better one, although the initial cost is greater. Because of the agitation for a memorial hall or building which has been lately discussed the Planning Board believes that the City would do well to adopt the last mentioned plan, which is in the nature of a permanent Honor Roll. Later on if the memorial hall becomes a reality this bronze frame could very easily be built into the wall of the new building with very little, if any, expense, and could then still fulfill its purpose.

The Planning Board suggests that the Honor Roll be erected near the Soldiers and Sailors monument on Central Hill.

The Planning Board is indebted to T. F. McGann & Co. of Somerville and Walter H. Hooper of the Hooper Printing Company of Somerville for valuable assistance in working out the plans submitted.

The Planning Board is annexing to its report the communications received with reference to the printing of the names and construction of the Honor Roll. The two plans which accompany this report were loaned by T. F. McGann & Co., and clearly illustrate the proposed plans, the one mounted on card board being the plan for the heavy bronze frame.

If further explanation of the plans is desired the Planning Board will be pleased to attend a meeting of the Board of

Aldermen, or discuss them with any committee which may be appointed.

Respectfully submitted,

WILLIAM F. RILEY,
Chairman.

HARRISON L. EVANS,
GEORGE J. RAUH,
PAUL R. VALENTINE,
DAVID J. KELLEY,
Secretary.

December 14, 1918.

REPORT OF THE CITY ENGINEER

OFFICE OF THE CITY ENGINEER,
City Hall, Somerville, January 10, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—In accordance with the city ordinances, the following report of the work done and expense incurred for the year ending December 31, 1918, by the Engineering Department and appropriations under my charge and supervision, including the accounts of city engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

In previous reports the general work, charter requirements and city ordinances relating to the duties of the city engineer have been fully described.

On account of the War very little new construction work has been attempted, the greater part of the work done, being for repairs and maintenance in the various divisions.

Divisions	Appropriations and Credits		Expenditures	Balances
City Engineer . . .	\$12,750	00	\$11,931	\$818 42
Parks Maintenance . .	10,150	00	8,344	1,805 58
Playgrounds Maint. . .	4,375	00 78 95	3,541	912 05
Sewers Maintenance . .	20,850	00 288 36	19,856	1,282 28
Sewers Construction . .	4,500	00 834 42	4,288	1,045 77

(Expenditures are shown in detail in the City Auditor's annual report.)

CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENSES, 1918.

Sewers,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments and all engineering work relating to sewers	\$2,060 24
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department	1,718 72
Sidewalks,—comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments	147 92
Water Works,—comprising lines, grades, locations of mains, gates, hydrants and services and other matters relating to the department	838 54

Parks and Public Grounds,—comprising surveys, plans, estimates, profiles and grades, including laying out of parks and playgrounds and boulevard	342 25
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds	163 02
Street Numbering,—comprising locations of buildings, plans, assigning street numbers	546 57
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	345 15
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc.	15 20
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc.	1,227 39
Middlesex Registry,—comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and sewer taking plans filed for record	124 93
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles and conduits	84 12
Setting Stone Bounds and Brass Rods,—defining street lines	136 50
Office Work,—comprising record of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting	3,298 21
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	103 72
Holidays, Vacations and Sickness	779 10
Total	\$11,931 58

Value of field instruments, tools and office instruments, \$2,000.00.

The total cost of maintaining the Engineer's Division since it was established, 1872-1918, both years inclusive, has amounted to \$379,832.00.

Six assistants have been employed during the year on engineering work. (The War has reduced the office assistants, and employees in other divisions of the department).

No plans were made during the year for street acceptance and no streets accepted as public highways, under the betterment act,—this being the first year that *no* street has been made a public highway since 1880—38 years ago.

The greatest number of streets accepted as public ways in any one year during this period being twenty-three and the average per year eleven.

There are plans for acceptance of eleven private streets, on file in this office, that for various reasons have not been made public ways.

The total length of public streets in the city is 83.846 miles, and private streets 16.933 miles. (See table at end of report for location, width, length, etc.)

Tables in the city engineer's report, 1917, show length of Public streets—Miles of Edgestone, Granolithic and Brick Sidewalks in each Ward. No new sidewalks were constructed during the year; 6,757 feet (1.28 miles) of new edgestone were set in the constructing of New Streets.

Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench Marks" throughout the city for giving grades.

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and in the reports of 1908, 1910, 1911 and 1913 together with the following table will show all bounds set to 1919.

STREET BOUNDS SET IN 1918 (Brass rods set in cement).

- Albion Terrace,—East side at south side Albion Street X 2 foot offset lines.
- Bristol Road,—East side at north side Broadway X 2 foot offset lines.
- Burnham Street,—West side at north side Broadway X 2 foot offset lines.
- Curtis Avenue,—South side at west side Curtis Street X 2 foot offset lines.
- Electric Avenue,—North side at east side Packard Avenue X 2 foot offset lines.
- Electric Avenue,—North side at X of tangents to curve on 2 foot offset lines.
- Gibbens Street,—North side at west side Benton Road X 2 foot offset lines.
- Hamilton Road,—North side at east side North Street X 2 foot offset lines.
- Hamilton Road,—North side at west side Barton Street produced, X 2 foot offset lines.
- Hamilton Road,—North side at east side Belknap Street produced, X 2 foot offset lines.
- Illinois Avenue,—East side line at X 2 foot offset line Broadway.
- Illinois Avenue,—East side line at X 2 foot offset line Pennsylvania Avenue.
- Indiana Avenue,—West side line at X 2 foot offset line Broadway.
- Indiana Avenue,—West side line at X 2 foot offset line Pennsylvania Avenue.
- Leonard Street,—West side at north side Broadway X 2 foot offset lines.
- Leonard Street,—West side at north side Walker Street produced, X 2 foot offset lines.
- Mason Street,—West side at north side Broadway X 2 foot offset lines.
- Mason Street,—West side at south side Ossipee Road X 2 foot offset lines.

- Michigan Avenue,—West side at north side Broadway.
- Michigan Avenue,—West side at south side Pennsylvania Avenue X 2 foot offset lines.
- New Hampshire Avenue,—West side at north side Pennsylvania Avenue X 2 foot offset lines.
- New Hampshire Avenue,—West side at south side Mystic Avenue X 2 foot offset lines.
- Pearson Road,—East side at north side Warner Street X 2 foot offset lines.
- Pearson Road,—East side at X tangents of curve 2 foot offset lines (drill hole in edgestone).
- Pennsylvania Avenue,—East side at north side Broadway X 2 foot offset lines.
- Pennsylvania Avenue,—North side at west side Maine Avenue X 2 foot offset lines.
- Pennsylvania Avenue,—South side at east side Wisconsin Avenue X 2 foot offset lines.
- Pennsylvania Avenue,—North side at west side Rhode Island Avenue X 2 foot offset lines.
- Teele Avenue,—North side at east side Curtis Street X 2 foot offset lines.
- Vermont Avenue,—West side at north side Pennsylvania Avenue X 2 foot offset lines.
- Vermont Avenue,—West side at south side Mystic Avenue X 2 foot offset lines.
- Waldo Avenue,—South side at east side Beacon Street X 2 foot offset lines.
- Waldo Avenue,—South side at west side Dimick Street X 2 foot offset lines.
- Walker Street,—Northeast side P. R. C., near Broadway 2 foot offset lines.
- Walker Street,—Northeast side P. R. C. near house No. 29, 2 foot offset line.
- Walker Street,—Northeast side P. C. near house No. 45, 2 foot offset line.
- Walter Terrace,—West side at south side Walter Street X 2 foot offset lines.
- Ware Street,—North side at west side Curtis Street X 2 foot offset lines.
- Ware Street,—North side produced, at west side Russell Road X 2 foot offset lines.
- West Adams Street,—East side at north side Conwell Avenue X 2 foot offset lines.

There are at the present time a total of 620 bounds or brass rods set for defining street lines.

Eight new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestones, a total length of 3,795 feet (.72 mile); three being done by contract and five by day labor.

The average cost of this type of construction for a forty-foot street complete, was \$8.51 per linear foot, being approximately \$2.50 per foot more than the previous year, on account of the unusual cost of labor and materials. (Table showing quantities and cost in report of Street Commissioner).

Assessments have been levied on abutting property owners for a portion of the cost of constructing these streets.

On account of the wide variation in the cost of construction, in various parts of the city, it would seem advisable that the levying of assessments be made more uniform throughout the city.

Table of Street Construction.

	Square Yards	Miles
*Streets paved with granite blocks	119,672	5.01
**Streets paved with concrete	23,990	1.42
†Streets paved with asphaltic top	42,215	2.59
Streets paved with vitrified brick	20,958	1.29
Streets paved with "Bi-co-mac"	10,100	0.77
Streets paved with bithulithic (patent)	3,059	0.06
Combination pavement (concrete base with bituminous top)	90,121	5.98
‡Streets macadamized (bituminous binder)		33.91
Streets macadamized (water bound)		32.07
Streets graveled or unimproved		17.68
Total		100.78

* Also 31.9 miles (single track) electric railway paved with granite, asphalt, bithulithic, etc.

** Includes 0.42 miles state highway.

† Includes 1.16 miles of state highway.

‡ Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

The Boston Elevated Railway Company has made extensive repairs in its roadbed in this city during the past year, replacing long sections of old tracks with new and heavier rails. There are a number of miles of trackage, however, in the city's main thoroughfares where the old granite block pavement, within the railroad location, should be relaid and grouted with Portland cement, and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms. There are 32 miles of electric railroad (single track length) at the present time in the city's streets.

Plans have been made by the various companies and corporations, and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city, which have been granted by the board of aldermen during the year: and the work of placing overhead wires in conduits underground and removing all poles from the streets should be extended as rapidly as possible.

At the present time there are underground in the city's streets 17.06 miles of telephone conduits, 12.42 miles of electric light conduits, 1.65 miles of electric railway conduits; and about 9.7 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown gas companies have re-

spectively 62.85 and 27.99 miles of gas mains in the city's streets.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc., have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled. (Length of water mains, etc., in report of Water Commissioner).

Lines and grades have been given for the erection of city buildings, and plans and sketches made for the laying out of surrounding grounds.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute, and special plans and data prepared for the city solicitor's use in court cases and hearings.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and the schedules of assessments made out showing the property owners.

Total number of plans on file in the office approximately eight thousand.

The recommendations and suggestions made in reports of the city engineer for a number of years past are for the improvement of conditions in this city and I respectfully repeat some of the more important — abolishment of the dangerous grade crossing at Park Street, as decreed by the court a number of years ago — reconstruct railroad bridge, Broadway (North Somerville) full width of street — construct new bridge over railroad at Prospect Street full width, the existing old, narrow, wooden structure being wholly inadequate for the increasing auto travel — replace railroad bridge over Washington Street (East Somerville) designed to increase head-room in street and improve drainage, where at present, traffic is seriously impeded — extension of permanent street pavement, using old granite block, re-cut, laid on a concrete base — change city boundary line, North Somerville-Medford, thereby accomplishing a number of needed improvements especially in the drainage system in this vicinity — construction of proposed sewer mains and storm drain in railroad valley, extending from near Gilman Square to Lowell Street — construction of proposed storm overflow drain from Somerville Avenue into Mil-

ler's River, at the East Cambridge line, for the relief of flooded streets and cellars in times of heavy storms—re-numbering old main thoroughfares and re-naming certain streets to avoid duplication and prevent confusion—special ordinances concerning city inspection on all underground work done by private companies or corporations and regulations as to method of street openings—set of block plans covering the entire city area, useful to city departments—stone and sand obtainable on certain lots owned by the city to be utilized in construction work.

SEWER DIVISION.

The high cost of materials and labor has prevented the extension of the "separate system" sewers and likewise storm drain construction work, except that absolutely necessary.

No sewers have been petitioned for during the year and only a small amount of new construction work has been done.

Construction Account, Statement of Expenses, 1918.

Constructing "separate system" sewers	\$ 824 45	
Constructing storm drains	2,493 75	
Constructing catch basins	1,141 30	
	<hr/>	
Cost of new work		\$4,459 50
Charged to other departments materials	29 15	
Materials on hand December 31 . . .	1,176 89	1,206 04
	<hr/>	<hr/>
Total		\$5,665 54
	Credit.	
Appropriation	\$4,500 00	
Balance unexpended, 1917	769 27	\$5,269 27
	<hr/>	
Received for materials	65 15	
Materials on hand December 31, 1917 .	1,376 89	
	<hr/>	
Total		6,711 31
		<hr/>
Balance unexpended (over to 1919) .		\$1,045 77

A much needed storm drain has been constructed in Fremont Street discharging into Mystic River, and extensions in future years will provide for the disposal of storm water for the northerly slope of the Winter Hill district.

The sewer and storm drain in Middlesex Avenue, commenced in 1917, has been completed and short lengths of sewer extensions have been constructed in Joy Street and Concord Avenue.

This work has been done by the city employing day labor; a total length of 1132.5 feet were constructed during the year, varying in size from 8" pipe to 20" pipe, at a cost of \$3,318.20. (See tabular statement for 1918, showing itemized statement of work).

The total length of the city's drainage system is 113.006 miles; 32.344 miles being on the "separate system" and 11.451 miles of storm drains, and the entire cost of construction has amounted to about \$1,346,752.00, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

The city's assessment for the Metropolitan sewerage system for the past year was \$47,935.30 on construction account and \$32,494.99 for maintenance, and the total amount paid the Com-

monwealth of Massachusetts for this state sewer has been \$1,323,021.93 (1892-1918, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

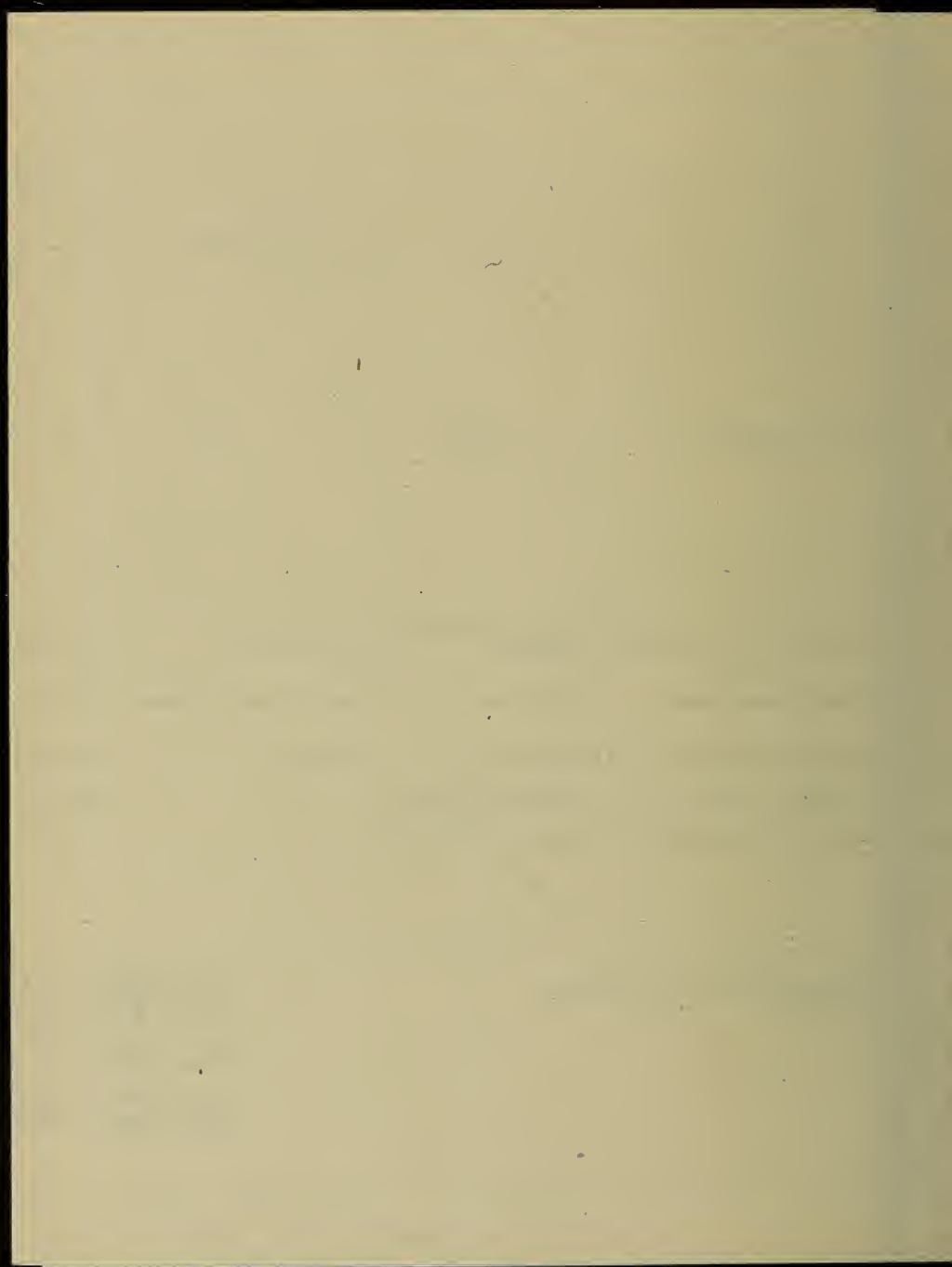
There are within the city's limits thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report.

Tabular Statement of Sewers and Storm Drains Built in 1918.

LOCATION.					ITEMS OF CONSTRUCTION AND COST.												
NAME OF STREET.	FROM	TO	BUILT BY	MATERIAL EXCAVATED.	Average Cut.	Size in inches.	Length in feet.	Manholes.	Average cost, Manholes.	Inlets.	PIPE SEWER, COST PER LINEAR FOOT.				Total Cost.	Assessment.	Cost to City.
											Excavating, Refilling and Pipe Laying.	Pipe, including Sub- drain where laid	Engineering and Inspection.	Average cost per Linear foot.			
Concord avenue, sewer extension	Sewer built (1899 N'y } sidewalk	Marion street.....	City Day Labor	Hardpan	7'-8"	10	76.8	...	.....	3	\$3.53	\$0.48	\$0.13	\$4.14	\$318.32	.....	\$318.32
Fremont street, storm-drain	Mystic river	near Meacham street.....	City Day Labor	Hardpan and rock.....	8'-0"	20 15 12 }	622.0	5	.....	...	*2.60	1.08	0.12	3.80	2,366.00	.....	2,366.00
Joy street sewer, N'y sidewalk.....	Poplar street	Westerly	City Day Labor	Hardpan	12'-6"	8	175.9	1	\$57.68	3	0.85	0.29	0.17	1.64	288.41	.....	288.41
Middlesex avenue, sewer.....	Completion from 1917....		City Day Labor	Clay and filling	8'-6"	8	130.5	1	44.09	2	0.77	0.38	0.18	1.67	**217.72	663.60	419.38
Middlesex avenue, storm-drain....	Completion from 1917....		City Day Labor	Clay and filling	7'-6"	10	127.3	1	18.87	2	0.33	0.36	0.17	1.00	127.75	.....	127.75
1132.5 (0.214 miles.)															\$3,318.20	\$663.60	\$3,519.83

* Includes cost of enlarging manholes.
 ** Cost (1917) \$865.23.

Total length of public sewers in the city, January 1, 1919.....	501,459.6 ft.	
Total length of private sewers in the city, January 1, 1919.....	34,748.0	
Total length of sewers in the city, January 1, 1919.....	536,207.6 =	101.555 miles (32.344 miles separate system sewers.)
Total length of storm-drains in the city, January 1, 1919	60,462.3 =	11.451 miles.
Total length of city drainage system, January 1, 1919.....		113.006 miles.
Total length of Metropolitan sewerage system mains running through the city.....		3.475 miles.



COMPILED TABLE SHOWING LENGTH AND COST OF STORM DRAINS CONDUCTED TO 1919.

Date of Construc- tion	District Benefited	From	To	Length in Feet	Cost
East Somerville District:					
1902	B. & M. R. R. (marsh land)	Middlesex ave.	Mystic river	1,108.0	By B. & M. R. R.
1902-03	Middlesex ave. (tidegate cham- ber)	near Cummings st.	B. & M. R. R. land	24.0	\$2,988 60
1903	Middlesex ave. & Winthrop ave.	B. & M. land Middlesex ave.	Mystic ave.	880.4	17,596 35
1917	Middlesex ave.	S. D. built in 1903	Northerly	567.3	430 17
1909	Middlesex ave. (Westerly side) ..	Winthrop ave.	Garfield ave.	535.0	868 91
1910	Middlesex ave. (Westerly side) ..	Garfield ave.	Near Mystic ave.	498.0	2,397 38
1900-03	Mystic ave. & Winthrop ave.	Bellmouth chamber .....	.....	58.2	2,470 82
1897	Mystic ave.	Fellsway East	Wheatland st.	726.0	7,569 17
1897	Fellsway East	Mystic ave.	Broadway	1,268.0	19,241 53
1898	Fellsway East (Including Bell- mouth)	End of drain built in 1897 Fellsway East	Broadway	25.7	755 67
1898	Broadway	Broadway	Sargent ave	1,648.6	14,566 77
1898	Sargent ave.	Broadway	Sherman ct.	2,126.1	20,900 26
1898	Sherman ct.	Sargent ave.	Marshall st.		
1898	Marshall st.	Sherman ct.	Gilman sq.		
1898	Gilman sq.	Marshall st.	Medford st.		
1898	Medford st.	Gilman sq.	School st.		
1900	School st.	Medford st.	Richdale ave.	451.0	532 37
1900	Richdale ave.	School st.	N. W. of Essex st.	684.5	1,834 72
1912	Mystic ave.	Fellsway East	Cross st.	1,092.5	2,470 92
1912	Mystic ave.	Cross st.	Near Austin st.	541.5	391 40
1912	Cross st.	Mystic ave.	Pennsylvania ave.	1,405.5	806 54
1912	Pennsylvania ave.	Cross st.	Near Broadway	400.5	258 19
1912	Connecticut ave.	Mystic ave.	Near Penn. ave.	373.9	248 42
1912	Rhode Island ave.	Mystic ave.	Near Penn. ave.	325.0	219 21
1913	Vermont ave.	Mystic ave.	Near Penn. ave.	307.3	239 59
1914	New Hampshire ave.	Mystic ave.	Near Penn. ave.	270.2	128 15
1915	Maine ave.	Mystic ave.	Near Penn. ave.	186.5	91 35
1915	Passageway off Maine ave.	Maine ave.	Southeasterly		

1898	Broadway	Fellsway East	Cross st.	15,741	27
1898	Cross st.	Broadway	Pearl st.	1,877.5	
1899	Otis st.	Cross st.	Westerly	375.0	174 55
1915	Pearl st. (North side)	Cross st.	Franklin st.	1,057.3	644 23
1915	Pearl st. (South side)	Cross st.	Near Franklin st.	870.2	492 62
1913	Pearl st. (South side)	Cross st.	Aldrich st.	853.0	1,212 26
1912	Broadway (North side)	Cross st.	Near Austin st.	1,498.8	1,647 38
1912	Minnesota ave.	Broadway	Near Penn. Ave.	464.1	276 94
1912	Wisconsin ave.	Broadway	Near Penn. Ave.	439.6	260 76
1912	Michigan ave.	Broadway	Near Penn. Ave.	407.2	256 79
1912	Illinois ave.	Broadway	Near Penn. Ave.	369.0	244 52
1912	Indiana ave.	Broadway	Near Penn. Ave.	318.1	224 43
Alewife Brook District:					
1911	Somerville Field	Alewife Brook	Powder House Blvd.	475.0	568 21
1912	Somerville Field drainage				1,287 19
1915	Somerville Field and Powder House Blvd.	Alewife Brook	E. side P. H. Blvd. at No. 285	563.5	1,484 55
1915	Powder House Boulevard	Nos. 263-265	North st.	130.3	741 48
1915	North st.	Near P. H. Blvd.	Conwell ave.	420.1	
1917	West Adams st.	Conwell ave.	Bailey st.	511.3	750 67
1917	Hillside road	Conwell ave.	Sunset rd.	633.5	1,167 89
1915	Powder House Blvd. and North st.	Near Som. Field	Hamilton rd.	564.0	1,017 20
1915	Hamilton road	North st.	Russell rd.	570.0	
1916	Powder House Boulevard	No. 285	High st.	659.5	971 95
1916	High st.	Powder House Blvd.	North st.	704.0	823 55
1916	North st.	Bailey st.	College Hill rd.	250.0	
1916	Somerville Field	Alewife Brook	P. H. Blvd. nr. Fairfax st.	496.0	1,143 87
1916	Somerville Field	Alewife Brook	P. H. Blvd. nr. Gordon st.	301.8	
1917	Powder House Boulevard	Across Boulevard	(West to East side)	71.0	421 44
1917	Powder House Boulevard	Woods ave.	Gordon st.	254.8	
1917	Gordon st.	Powder House Blvd.	Near North st.	1,195.4	528 02
1898	Broadway	Alewife Brook	Near Barton st.	988.6	612 58

COMPILED TABLE SHOWING LENGTH AND COST OF STORM DRAINS CONDUCTED TO 1919.

Date of Construc- tion	District	Benefited	From	To	Length in Feet	Cost
Lowell Railroad Valley District:						
1908	Waverly st.	.....	Tide gate chamber	Southerly	231.0	1,723 93
1902	Murray st.	.....	Washington st.	Southerly	140.0	125 21
1915-18	Charles st.	.....	Old sewer changed to S. D. and extended	.....	195.0	
1896-99	Private Lands (W. of Lowell st.)	.....	L. & A. Branch R. R.	Hudson st.	865.0	1,853 46
1904	Lowell & Albion sts.	.....	Private lands Albion st.	Hudson st.	246.0	140 90
1903	Vernon st.	.....	Trull st.	Glenwood st.	372.0	531 42
1913	Vernon st.	.....	Glenwood rd.	Bartlett st.	212.7	539 86
1913	Bartlett st.	.....	Vernon st.	Near Robinson st.	475.8	567 76
1907	City Farm st. and Summer st.	.....	Lowell R. R. nr. Cedar st.	Hinckley st.	998.0	1,013 41
1912	City Farm storm drain	.....	Extension at Incinerator Plant	.....	70.0	183 26
North Somerville District:						
1907	Two Penny Brook	.....	Pearson rd. (E. side)	College ave. (W. side)	690.3	6,848 34
1913	Private Lands (Pearson road)	.....	Storm relief overflow	Medford line		232 85
1905	Pearson road	.....	Two Penny Brook	Broadway	1,775.1	6,630 35
1905	Broadway	.....	Pearson road	Boston ave.		
1906	Broadway, connecting Rogers, Willow, Josephine and Lowden aves. with Broadway	.....	storm drain	.....	220.9	400 95
1907	Lowden ave.	.....	Broadway	Kidder ave.	979.9	
1907	Kidder ave.	.....	Lowden ave.	Bay State ave.	219.0	
1907	Mallet st.	.....	Lowden ave.	Bay State ave.	224.5	2,494 07
1907	Bay State ave.	.....	Mallet st.	Northerly	118.0	
1908	Mallet st.	.....	Lowden ave.	Willow ave.	237.8	307 21
1908	Willow ave.	.....	Mallet st.	Southerly	64.9	
1904	Broadway	.....	Josephine ave.	B. & L. R. R.	504.0	692 54
1917	Rogers ave.	.....	Broadway	Southwesterly	622.9	1,216 20

Somerville Avenue District:

1903	Maple st.	Poplar st.	Near Medford st.	608.5	625 64
1902	Linden st.	Old sewer changed to storm drain.....		626.0	
1902	Merriam st.	Old sewer changed to storm drain.....		547.0	
1902	Allen st.	Somerville ave.	nr. Charlestown st.	557.0	1,080 23
1902	Prospect Hill parkway	Columbus ave.	Northerly	262.0	343 72
1898	Union sq.	Washington st.	Bow st.	2,080.8	18,259 94
1898	Bow st.	Union sq.	Summer st.		
1898	Summer st.	Bow st.	School st.		
1899	School st.	Summer st.	Berkeley st.		
1904	Vine st.	Somerville ave.	Southwesterly	438.0	981 90
1901	Somerville ave.	Spring st.	Lowell st.	130.0	222 78
1901-04	Cedar st.	S. W. Sartwell ave.	Highland ave.	705.0	1,432 96
1908	Bowdoin st.	Washington st.	Lincoln Park	1,443.2	5,428 96
1908	Lincoln Park	Bowdoin st.	E'ly and W'ly	413.7	858 59
1915	Magnus ave.	Washington st.	South of Lewis st.	64.0	288 49
1917	Rose st.	Washington st.	Near Lewis st.	514.8	214 94
				395.0	

Tannery Brook Valley District:

1908	Tannery Brook (Concreting invert, relaying and extending underdrain)			458 32
1898-1903	Tannery Brook drain (in Camb.) near Alewife Brook			2,533 73
1896	Tannery Brook drain	Clarendon ave. (Camb.) Davis sq.	657.3	31,942 76
1913	Elm st.	Davis sq.	338.5	4,051 68
1901	Lex. & Arl. Branch R. R. location	Holland st.	Willow ave. & Morrison ave.	2,135.2
1913	Davis sq.	Large Chamber const. ..	Conn. S. D. & sewer	10,031 61
1904	Yorktown st.	Tannery Brook dr.	Glendale ave.	187 49
1896	Cameron ave.	Tannery Brook dr.	Northerly	149 73
1904	Cameron ave.	Tannery Brook dr.	Mead st.	115 72
1896	Gorham st.	Tannery Brook dr.	Northerly	1,726 89
1896	Jay st.	Tannery Brook dr.	Northerly	196 24
1917	Buena Vista road	Tannery Brook dr.	Northerly	87 38
1898	Day st.	Davis sq.	N'y Holland st.	346 15
1913	Private Lands	Hall ave.	Westerly	360 90
1914	Frederick ave.	Boston ave.	Francesca ave.	636 88
			Prichard ave.	215 58
				170.0

COMPILED TABLE SHOWING LENGTH AND COST OF STORM DRAINS CONDUCTED TO 1919.

Date of Construc- tion	District Benefited	From	To	Length in Feet	Cost
Winter Hill District: 1918	Fremont st.	Mystic river	Southwesterly	622.0	2,366 00
	Total length and cost (11,451 miles)			60,462.3	\$240,348 03

Seventeen catch basins have been constructed in the highways during the year, making a total of 1,935 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways	1,773	basins
Located in city boulevard	33	"
Located in parks (17) and other city lots (12)	29	"
<hr/>		
Total catch basins constructed and maintained by the city	1,835	
By Boston & Maine Railroad Company on railroad locations	36	basins
By State, located in boulevards, and highways	129	"
<hr/>		
Total catch basins in the city for storm drainage purposes	2,000	

The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow, and storm drains completed in certain localities as previously recommended.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work completed.

MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1918.

Maintenance of sewers, including cleaning and flushing (113 miles)	\$4,066 87	
Maintenance of catch basins, cleaning and flushing (1,835)	12,422 06	
Maintenance of storm water pump, Medford Street	194 60	
Changing line and grade and repairing catch basins	412 93	
Changing line and grade and repairing manholes	158 37	
Repairing old sewers	496 19	
Inspection and location of house drains	589 34	
New tools and supplies	450 68	
Repairs of tools and property	104 01	
Maintenance of sewer division yards	621 25	
Telephone	50 52	
Expressing, etc.	90	
<hr/>		\$19,567 72
Labor, teaming and materials for other depts.		288 36
<hr/>		
Total expenditure		\$19,856 08

CREDIT.

Appropriation	\$20,850 00	
Received from other departments:—		
Labor and teaming	263 11	
Materials	25 25	
	<hr/>	288 36
Total credit		<hr/> \$21,138 36
Balance unexpended		\$1,282 28

Value of tools and property on hand in maintenance of sewers, \$2,500.00.

A permanent force of men, varying in number from twelve to seventeen, and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins, etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumps. These dumping places are fast diminishing and in a very few years' time some other means of disposal will have to be provided.

Approximately 6,200 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of about \$2.25 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$146.00. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning per basin has been about \$6.77 the past year.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and manholes have been repaired and grade or line changed.

Seventy permits have been issued to licensed drain layers for connecting buildings with the main sewers, thirty-seven being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

Certain persons are licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 16,475 private house drain connections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies furnishing materials and labor, and being partially reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

PARKS AND PLAYGROUNDS DIVISION.

Under this division about seventy-five acres are maintained as parks and playgrounds, and approximately a mile of city boulevard; 65.5 acres are owned by the city and certain areas owned by private parties are turned over to the city for recreation purposes, also satisfactory arrangements have been made for a number of years whereby the city has the use of Tufts College playfield during the summer vacation months, and skating areas in the winter. These areas when completely developed will compare favorably with other cities in the vicinity.

The baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have not been in constant use as in former years, because many of these people, on account of the war, have devoted their time and energies to the raising of vegetables on these playfields. The money generally spent for flower beds, shrubs, etc., for ornamentation of the various city grounds has been used in cultivating large areas of park and playground land; the total cost for plowing, harrowing, fertilizing, etc., amounting to \$688.11.

The past year, this division of the engineering department has had the supervision of plowing and harrowing of many acres of private land throughout the city, the owners paying the cost, as provided by law, whenever the city is requested to do the work.

MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1918.

Playgrounds		Parks	
\$349	86	Broadway Park (15.9 acres)	\$1,166 28
		Broadway Parkway (2.0 acres)	205 59
99	13	Central Hill Park (13.1 acres)	2,195 30
782	95	Lincoln Park (8.3 acres)	1,032 11
54	12	Prospect Hill Park (2.6 acres)	1,144 45
22	01	Tufts Park (4.5 acres)	852 30
		Paul Revere Park (.02 acre)	12 00
		Belmont Street Park (0.4 acre)	291 69
		Powder House Boulevard (0.9 miles long)	619 89
		Powder House Square Parkway (0.2 acre)	19 50
		Cemetery, Somerville Avenue (0.7 acre)	19 25
655	05	Somerville Field at Alewife Brook (11.5 acres)	283 03
580	43	Playground, Cedar street and Broadway (4.3 acres)	162 86

212 97	Playground, Glen street and Oliver street (0.9 acre + 1.5 acre private land)	2 75
170 30	Playground, Kent street and Somerville avenue (0.8 acre)	29 99
9 70	Playground, Poplar street and Joy street (0.5 acre)	
3 50	Playground, Beacon street near Washington street (0.2 acre)	
3 50	Playground, Webster avenue, near Cam- bridge line (0.2 acre)	
116 84	Playground, Mason street and Broadway Tennis court (0.3 acre)	
87 75	Playground, Fellsway East (2.5 acres private land)	
13 20	Tufts College Land (Summer and Winter Playground, 4.8 acres)	
301 64	Plowing, harrowing and fertilizing Park and Playground areas for planting	307 52
78 95	Plowing, harrowing, etc., for Recreation Commission, private land	
	Total expenditure, maintenance (75 acres) 65.5 acres city property + 8.8 acres pri- vate land, .7 acre cemetery and 0.9 mile boulevard, and 0.54 mile parkway roads	
<hr/>		<hr/>
\$3,541 90		\$8,344 42

CREDIT.

Playgrounds and Recreation		Parks
	Appropriation for Parks	\$10,150 00
\$4,375 00	Appropriation for Playgrounds	
78 95	Received from Recreation and Playground Commission	
<hr/>		
\$4,453 95	Total credit	\$10,150 00
<hr/>		<hr/>
\$912 05	Balance unexpended	\$1,805 58

The number of men employed has varied from seven to sixteen.

The city's assessment for Metropolitan parks and boulevards for the year 1918 amounted to \$15,724.55 on construction account, \$27,732.46 being the proportional cost for maintaining the same; in addition to this the city's special assessment for the Charles River basin construction and maintenance amounted to \$7,457.52; for the improvement of Alewife brook and maintenance of same \$1,197.94 and for the maintenance of Wellington bridge across Mystic River, \$3,173.78. The total of these assessments amounts to \$55,286.25, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1918.

The total assessment paid to the State for parks and boulevards amounts to \$702,972.15, January 1, 1919, and the length of State boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city and extending between Broadway and Mystic River, and one and three-tenths miles bordering Mystic River and Alewife brook located in the westerly part of the city.

The roadway and steps at Lincoln Park were reconstructed the past year; and long lines of tar walks on Central Hill Park should be reconstructed.

In December a large Christmas community tree, a white spruce, was purchased and hauled by the city a number of miles to Central Hill Park where it was transplanted.

An unusually heavy storm last summer uprooted twelve large poplar trees located on the city's boulevard and also destroyed the flagpole at Broadway Park; the trees and pole should be replaced immediately.

A permanent concrete field house should be constructed at the Somerville athletic field with all modern equipment and the remaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed laying out.)

The city has become so densely populated (about 22,000 persons to a square mile) that portions of some of the larger park areas should be utilized for public recreation and physical training purposes; on several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained, for the young men and women working in the factories daily.

Paul Revere Park area should be enlarged by acquiring additional land, constructing a street across from Main street to Broadway separating the city's park from the adjoining land, and thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

In connection with the departmental work the Recreation and Playground commission and Playgrounds Association have been of great assistance in advising, directing and promoting the city's welfare. (See Supt. of Schools report for details.)

APPENDED TABLE.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,

ERNEST W. BAILEY,
City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

Street	From	To	Public or Private.	Width in Feet.	Public	Private	Length.
Abdell	Somerville ave	Southwesterly	Private.	25	.....		203
Aberdeen road	Cedar st.	Highland ave.	Public.	40	449	.....
Aberdeen rd. ex.	Angle	Westerly	Private.	30	.....		67
Acadia pk.	Somerville ave	Northeasterly	Public.	40	256	.....
Adams	Broadway	Medford st.	Public.	40	907	.....
Adelaide rd	Somerville ave	Northeasterly	Private.	20	.....		138
Adrian	Marion st.	Joseph st.	Public.	40	579	.....
Albion pl.	Albion st.	Northeasterly	Private.	10	.....		166
Albion ct.	Albion st.	Southeasterly	Private.	16	.....		116
Albion	Central st.	Cedar st.	Public.	40	2,742	.....
Albion	Broadway	Medford line	Private.	50	.....		100
Albion ter.	Albion st.	Southwesterly	Public.	25	100	.....
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	.....
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	.....
††Alewife Brk pky	Mystic Val. pky.	Cambridge line	Public.	.....	4,775	.....
Alfred	Broadway	Medford line	Private.	50	.....		50
Allen	Somerville ave	Charlestown st.	Private.	25	.....		680
Allen ct	Park st.	Northwesterly	Private.	20	.....		150
Alpine	Cedar st.	Southeasterly	Public.	30	667	.....
Alpine	Alpine st.	Lowell st.	Public.	40	688	.....
Alston	Cross st.	Shawmut st.	Public.	40-30	757	.....
Ames	Bartlett st.	Robinson st.	Public.	40	580	.....
Appleton	Willow ave.	Clifton st.	Public.	40	548	.....
Appleton	Clifton st.	Liberty ave.	Public.	40	120	.....
Arlington	Franklin st.	Lincoln st.	Public.	40	452	.....
Arnold ave	Porter st.	Southeasterly	Private.	15	.....		127
Arnold ct.	Beacon st.	Northeasterly	Private.	10	.....		115
Arthur ct.	Linden st.	Easterly	Private.	about 10	.....		100
Arthur	Broadway	Bonair st.	Public.	40	438	.....
Ash ave.	Meacham st.	East Albion st.	Public.	40	554	.....
Ash ave.	East Albion st.	Northeasterly	Private.	40	.....		151
Ashland	Summer st.	Sartwell ave.	Public.	30	478	.....
Atherton	Central st.	Spring st.	Public.	40	741	.....
Auburn ave.	Cross st.	B. & L. R. R.	Public.	30	606	.....
Austin	Broadway	Mystic ave.	Public.	40	716	.....
Autumn	Broadway	Bonair st.	Public.	20	408	.....
Avon	School st.	Central st.	Public.	40	1,360	.....
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	.....		150
Bailey	North st.	West Adams st.	Private	40	.....		420
Banks	Elm st.	Summer st.	Public.	40	639	.....
Bartlett	Vernon st.	Broadway	Public.	40	1,550	.....
Barton	Broadway	Hamilton road	Public.	40	382	.....
Bay State ave.	Broadway	Fosket st.	Public.	40	1,237	.....
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	.....		200
Beacon pl.	Beacon st.	Northeasterly	Private.	15	.....		200
Beacon	Cambridge line	Somerville ave.	Public.	66	6,007	.....
Beacon ter.	Somerville ave.	Northeasterly	Private.	24	.....		110
Bean ter.	Cutter st.	Southeasterly	Private.	16	.....		100
Beckwith circle	Beacon st.	Southwesterly	Private.	28.5	.....		112
Bedford	South st.	Cambridge line	Public.	30	165	.....
Beech	Somerville ave.	Atherton st.	Public.	40	323	.....
Belknap	Broadway	Hamilton road	Public.	40	449	.....
Bellevue ter.	Albion st.	Northeasterly	Private.	20	.....		90
Belmont	Somerville ave	Highland ave.	Public.	40	2,192	.....
Belmont pl.	Belmont st.	Southeasterly	Public.	25	177	.....
Belmont sq.	Belmont st.	Southeasterly	Public.	30	75	.....
Belmont sq.	Belmont ter	N. E. & S. W.	Public.	20	145	.....
Belmont ter.	Belmont st.	Easterly	Private.	15	.....		137
Benedict ave.	Broadway	Benedict st.	Private.	20	.....		200
Benedict	Union st.	Austin st.	Public.	40	585	.....
Bennett ct.	Bennett st.	Prospect st.	Private.	10	.....		100
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	.....		400
Benton road	Summer st.	Hudson st.	Public.	40	1,208	.....
Berkeley	School st.	Central st.	Public.	40	1,360	.....
Berwick	Hinckley st.	Northwesterly	Private.	20	.....		170
Rigelow	Boston st.	Munroe st.	Public.	50	208	.....
Billingham	Broadway	William st.	Public.	40	563	.....

††Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Bishop's pl.	Glen st.	Easterly	Private.	10	....	75
Blakeley ave.	Fellsway east	Cross st.	Private.	40	....	630
Bleachery ct.	Somerville ave.	Fitchburg R.R.	Private.	30	....	450
Bolton	Oak st.	Houghton st.	Public.	40	476	....
Bonair	Cross st.	Walnut st.	Public.	40	1,535	....
Bond	Broadway	Jaques st.	Public.	40	655	....
Bonner ave.	Washington st.	Columbus ave.	Public.	40	376	....
Boston ave.	Medford line	Mystic river	Public.	60	915	....
Boston ave.	Broadway	Medford line	Public.	50	80	....
Boston ave.	Broadway	Highland road	Public.	65	287	....
Boston ave.	Highland road	Prichard ave.	Public.	50	509	....
Boston ave.	Prichard ave.	East to angle in street	Private.	50	....	146
Boston ave.	Angle in st. s'ly	Kidder ave.	Private.	40	....	376
Boston ave.	Kidder ave.	Morrison ave.	Public.	40	649	....
Boston	Washington st.	Prosp't Hill av.	Public.	45	640	....
Boston	Prosp't Hill av.	Walnut st.	Public.	40	1,242	....
Bow	Union sq.	Wesley sq.	Public.	60	658	....
Bow	Wesley sq.	Somerville ave.	Public.	50	570	....
Bowdoin	Washington st.	Lincoln park	Public.	40	341	....
Bowers ave.	Cottage ave.	Elm st.	Private.	24	....	288
Bow St. pl.	Bow st.	Northwesterly	Private.	40	....	300
Bradford ave.	School st.	Southeasterly	Private.	40	....	150
Bradley	Pearl st.	Walter st.	Public.	40	762	....
Braemore road	Broadway	Medford line	Private.	40	....	9
Brastow ave.	Lowell st.	Porter st.	Public.	40	686	....
Bristol road	Broadway	Medford line	Public.	40	146	....
Broadway	Charlest'n line	Cross st.	Public.	100	2,590	....
Broadway	Cross st.	Marshall st.	Pub.	100 to 200	2,060	....
Broadway	Marshall st.	Main st.	Public.	100	1,570	....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	....
Broadway	Top of hill	Albion st.	Public.	90	2,540	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	....
Broadway	Paulina st.	Arlington line	Public.	65-60-65	3,220	....
Broadway pl.	Broadway	Southwesterly	Private.	22	....	250
Bromfield road	Warner st.	Dearborn road	Public.	40	1,262	....
Brook	Glen st.	Cross st.	Public.	40	504	....
Browning road	Sycamore st.	Central st.	Public.	40	679	....
Buckingham	Beacon st.	Dimick st.	Public.	40	292	....
Buena Vista rd.	Holland st.	Southwesterly	Private.	35	....	276
Burnham	Broadway	Pow. House Bl.	Public.	40	543	....
Burnside ave.	Elm st.	Summer st.	Public.	40	720	....
Cady ave.	Simpson ave.	Northwesterly	Private.	40	....	203
Caldwell ave.	Washington st.	Southerly	Private.	20	....	210
Calvin	Beacon st.	Dimick st.	Public.	40	263	....
Calvin	Dimick st.	Washington st.	Public.	30	392	....
Cambria	Central st.	Benton road	Public.	40	488	....
Cameron ave.	Holland st.	Cambridge line	Public.	60	1,065	....
Campbell pk.	Meacham rd.	Kingston st.	Public.	40	399	....
Campbell Pk. pl.	Kingston st.	Arl'ton Br. R.R.	Private.	20	....	84
Carlton	Somerville ave.	Lake st.	Public.	40	300	....
Carter terrace	Summer st.	Southwesterly	Public.	40	171	....
Carter terrace	Accepted part	Southwesterly	Private.	18+	....	43
Carver	Porter st.	Northwesterly	Private.	40	....	156
Cedar ave.	Cedar st.	Linden ave.	Private.	22	....	290
Cedar ct.	Cedar st.	Southeasterly	Private.	15+	....	70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20	....	378
Cedar St. pl.	Cedar n Elm st.	Southeasterly	Private.	12+	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,137	....
Central road	Central st.	E'ly and N'ly	Public.	40	377	....
Central road	Central road	Sycamore st.	Public.	30 to 15	221	....
Central	Somerville ave.	Summer st.	Public.	33	1,043	....
Central	Summer st.	Medford st.	Public.	40	2,539	....
Central	Medford st.	Broadway	Public.	45	1,079	....
Centre	Albion st.	B. & L. R. R.	Private.	35	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....
Chapel	College ave.	Chandler st.	Public.	40	273	....
Chapel ct.	Sycamore st.	Northwesterly	Private.	12	....	130
Charles	Washington st.	Southerly	Public.	30	166	....
Charlestown	Allen st.	Easterly	Private.	15	....	400
Charnwood rd.	Willow ave.	Hancock st.	Public.	40	589	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
*Chelsea	Mystic ave.	Melrose st.	Private.	50	....	1,390
Cherry	Elm st.	Highland ave.	Public.	45	1,450	....
Cherry	Highland ave.	Northeasterly	Private.	45	....	110
Chester	Elm st.	Cambridge line	Public.	40	885	....
Chester ave.	Medford st.	Angle	Public.	about 22	220	....
Chester ave.	Angle	Cross st.	Public.	20	451	....
Chester pl.	Chester st.	Northwesterly	Private.	40	....	200
Chestnut	Poplar st.	Southeasterly	Public.	40	537	....
Chetwynd road	Curtis st.	West Adams st.	Private.	40	....	892
Church	Summer st.	Lake st.	Public.	40	964	....
City road	Broadway	Cedar st.	Private.	45	....	980
Claremon	Holland st.	Mead st.	Public.	40	560	....
Claremon ave.	Broadway	Cambridge line	Public.	40	1,217	....
Clark	Newton st.	Lincoln pky.	Public.	35	552	....
Cleveland	Central st.	Harvard st.	Public.	40	459	....
Clifton	Appleton st.	Morrison ave.	Public.	40	200	....
Clifton	Morrison ave.	Arlingtn Br. RR	Private.	40	....	220
Clyde	Cedar st.	Murdock st.	Public.	30	664	....
College ave.	Davis sq.	Medford line	Public.	60	4,080	....
College Cir.	College av. around to College av.		Private.	10 and 12	....	284
College Hill rd.	Conwell ave.	North st.	Private.	40	....	449
Columbia	Webster ave.	Cambridge line	Public.	40	816	....
Columbia ct.	Columbia st.	Webster ave.	Private.	9	....	150
Columbus ave.	Washington st.	Walnut st.	Public.	40	1,425	....
Concord ave.	Prospect st.	Wyatt st.	Public.	40	1,483	....
Concord ave.	Wyatt st.	Beacon st.	Public.	30	472	....
Congress pl.	Linwood st.	Somerville ave.	Public.	50	202	....
Conlon ct.	Columbia st.	Easterly	Private.	20	....	200
Connecticut av.	Mystic ave.	Penn. ave.	Public.	40	487	....
Conwell ave.	Curtis st.	North st.	Public.	40	1,346	....
Conwell	Highland ave.	Southwesterly	Public.	35	363	....
Cooney	Beacon st.	Line st.	Private.	30	....	220
Corinthian road	Broadway	Cady ave.	Private.	40	....	560
Cottage ave.	Russell st.	Chester st.	Public.	40	550	....
Cottage circle	Cottage ave.	Southwesterly	Private.	25	....	87
Cottage pl.	Washington st.	Northwesterly	Private.	about 11	....	150
Craigie	Somerville ave.	Summer st.	Public.	50	1,280	....
Craigie ter.	16 Craigie st.	Westerly	Private.	25	....	126
Crescent	Washington st.	Hadley st.	Private.	30	....	402
Crescent	Hadley st.	Pearl st.	Public.	30	174	....
Crocker	Highland ave.	Crown st.	Public.	40	528	....
Cross	Medford st.	Broadway	Public.	45	2,680	....
Cross st. (East)	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl.	Cross st.	Northwesterly	Private.	24	....	150
Crown	Porter st.	Lowell st.	Private.	30	....	700
*Cummings	Fellsway	Middlesex ave.	Private.	40	....	625
Curtis ave.	Curtis st.	Hillsdale road	Public.	40	654	....
Curtis	Broadway	Medford line	Public.	40	2,357	....
Cutler	Hinckley st.	Northwesterly	Private.	20	....	170
Cutter ave.	Summer st.	Highland ave.	Public.	40	480	....
Cutter pk.	Cutter ave.	Northwesterly	Private.	12	....	83
Cutter	Broadway	Webster st.	Public.	40	730	....
Cypress	Central st.	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	696	....
Dane	Somerville ave.	Washington st.	Public.	40	1,341	....
Dane ave.	Dane st.	Leland st.	Public.	30	569	....
Dante terrace	Craigie st.	Westerly	Private.	25	....	125
Dartmouth	Medford st.	Broadway	Public.	40	1,465	....
Day	Elm st.	Cambridge line	Public.	40	908	....
Dearborn road	Boston ave.	College ave.	Public.	50	469	....
Delaware	Aldrich st.	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st.	Wheatland st.	Public.	40	1,031	....
Dexter	Broadway	Medford line	Private.	50	....	25
Dickinson	Springfield st.	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave.	Private.	40	....	271
Dimick	Concord ave.	Calvin st.	Public.	40	957	....
Dix pl.	Linwood st.	Southwesterly	Private.	10	....	100
Douglas ave.	Edgar ave.	Southeasterly	Private.	30	....	162
Dover	Elm st.	Cambridge line	Public.	40	975	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length Public Private	
Dow	Powder House Ware st. Bd.		Private.	40	....	257
Downer pl.	Downer st.	B. & L. R. R.	Private.	20	....	125
Downer	Nashua st.	Southeasterly	Private.	20	....	120
Dresden circle	Cutter ave.	Westerly	Private.	30	....	133
Durant	Washington st.	Southerly	Private.	20	....	200
Durham	Beacon st.	Hanson st.	Public.	40	423	....
Dynamo	Willow ave.	Whipple st.	Private.	30	....	255
Earle	South st.	Fitchburg R. R.	Private.	30	....	322
East Albion	Mt. Vernon ave.	E. of Moreland st.	Private.	25	....	188
East Albion	E. of Moreland st.	Medford line	Private.	40	....	490
Eastman road	Highland ave.	Southwesterly	Public.	40	296	....
Edgar ave.	Main st.	Meacham st.	Private.	50	....	800
*Edgeworth	Mystic ave.	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	near Bonair st.	Public.	40	376	....
Edmonton ave.	Cross st.	Fellsway east	Private.	40	....	630
Electric ave.	Mason st.	Curtis st.	Public.	40	1,374	....
Eliot	Vine st.	Park st.	Public.	40	291	....
Ellington road	Highland ave.	Northeasterly	Private.	35	....	120
Ellington road	West st.	Northwesterly	Private.	30	....	405
Ellsworth	Cross st.	Rush st.	Public.	40	230	....
Elm ct.	Villa ave.	Northwesterly	Private.	18	....	70
Elm pl.	Harvard st.	Westerly	Private.	30	....	190
Elm road	Elm st.	Northeasterly	Private.	25	....	183
Elm	Somerville ave.	Cherry st.	Public.	63	1,672	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Davis sq.	Public.	60	1,429	....
Elmwood	Holland st.	Cambridge line	Public.	40	1,057	....
Elmwood ter.	Elmwood st.	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Endicott ave.	Broadway	Woodstock st. (Ext'n)	Private.	40	....	800
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis	Beacon st.	Cambridge line	Private.	30	....	150
Everett ave.	Cross st.	Dana st.	Public.	40	845	....
Everett	Webster ave.	Newton st.	Private.	30	....	350
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	22	....	179
Exchange pl.	Washington st.	Southerly	Private.	4.5	....	70
*Fairfax	North st.	Powder House Blvd.	Private.	40	....	915
Fairlee	Cherry st.	Northwesterly	Public.	30	144	....
Fairmount ave.	Curtis st.	Northwesterly	Public.	40	679	....
Fairview ter.	Sycamore st.	Southwesterly	Private.	15	....	173
Farragut ave.	Broadway	Woodstock st. (Ext'n)	Public.	40	905	....
††Fellsway	Mystic ave.	Mystic river	Public.	70 to 130	2,500	....
††Fellsway east (Winthrop ave.)	Broadway	Mystic ave.	Public.	50	1,222	....
††Fellsway West (Chauncey ave.)	Broadway	Mystic ave.	Public.	50	1,324	....
Fenwick	Broadway	Jaques st.	Public.	40	601	....
Fisk ave.	Hinckley st.	Lowell st.	Public.	20	484	....
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225
Fitchburg	Linwood st.	B. & L. R. R.	Private.	40	....	400
Flint ave.	Flint st.	Northerly	Public.	40	202	....
Flint	Franklin st.	Aldrich st.	Public.	40	1,790	....
Florence	Washington st.	Perkins st.	Public.	40	1,304	....
Florence ter.	Jaques st.	Southwesterly	Private.	20	....	90
Forest	Beacon st.	Cambridge line	Public.	40	117	....
Forster	Sycamore st.	Central st.	Private.	30	....	430

*Proposed.

††Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length	
						Public	Private
Foskett	Willow ave.	Liberty ave.	Public.	40		668	....
Fountain ave.	Cross st.	Glen st.	Public.	30		578	....
Francesca ave.	College ave.	Liberty ave.	Public.	40		762	....
Francis	Porter st.	Conwell st.	Public.	30		180	....
Franklin ave.	Washington st.	Franklin st.	Public.	20		575	....
Franklin pl.	Franklin st.	Southeasterly	Private.	15		....	100
Franklin	Broadway	Washington st.	Public.	40 +		2,316	....
Fremont ave.	Bowdoin st.	Lincoln pk.	Public.	30		232	....
Fremont	Main st.	Nr E. Albion st	Public.	40		1,112	....
Fremont	Nr E. Albion st	Mystic ave.	Private.	40		....	335
Garden ct.	Somerville ave.	Fitchburg R. R.	Private.	25		....	370
Garfield ave.	Broadway	Blakeley ave.	Public.	40		447	....
Garfield ave.	Blakeley ave.	Middlesex ave.	Private.	40		....	983
Garrison ave.	Broadway	Land of City of Camb.	Public.	40		460	....
Garrison ave.	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40		....	390
George	Broadway	Lincoln ave.	Public.	30		275	....
Gibbens	Central st.	Benton rd, w'ly	Public.	40		665	....
Giles pk.	Walnut st.	Northwesterly	Public.	32.71		167	....
Gill's ct.	Franklin st.	Westerly	Private.	10		....	100
Gilman	Cross st.	Walnut st.	Public.	40		1,430	....
Gilman ter.	Pearl st.	Northeasterly	Public.	40		360	....
Gilson ter.	Linden ave.	Northwesterly	Private.	20		....	124
Glen	Broadway	Tufts st.	Public.	40		2,373	....
Glendale ave.	Cameron ave.	Yorktown st.	Public.	40		410	....
Glenwood road	Vernon st.	Broadway	Public.	40		1,524	....
Glover circle	Meacham road	Southeasterly	Private.	20		....	110
Gordon	North st.	Pow. House Bd	Private.	40		....	1,245
Gorham	Holland st.	Howard st.	Public.	40		763	....
Gould ave.	Porter st.	Southeasterly	Private.	16		....	156
Gove ct.	Cedar st.	Southeasterly	Private.	18		....	144
Grand View av.	Walnut st.	Vinal ave.	Public.	40		542	....
Granite	Somerville ave.	Osgood st.	Public.	40		411	....
Grant	Broadway	Mystic ave.	Public.	40		1,405	....
Greene	Summer st.	Laurel st.	Public.	40		555	....
Greenville	Medford st.	Munroe st.	Public.	40		660	....
Greenville ter.	Greenville st.	Northerly	Private.	20		....	250
Greenwood ter.	Beacon st.	Northeasterly	Private.	25		....	165
Gritter way	College ave.	Bromfield rd.	Private.	4		....	160
Grove	Elm st.	Morrison ave.	Public.	40		996	....
Hadley ct.	Franklin st.	Westerly	Private.	16		....	95
Hall ave.	College ave.	Liberty ave.	Public.	40		926	....
Hall	Cedar st.	Cherry st.	Public.	30		456	....
Hamlet	Highland ave.	Boston st.	Public.	30		616	....
Hamilton road	Russell road	North st.	Public.	40		560	....
Hammond	Dickinson st.	Concord ave.	Public.	40		267	....
Hancock	Elm st.	Highland ave.	Public.	40		1,349	....
Hancock	Highland ave.	Lexington ave.	Public.	50		376	....
Hanson ave.	Hanson st.	Easterly	Private.	30		....	252
Hanson	Washington st.	Skehan st.	Public.	30		469	....
Hanson	Skehan st.	Vine st.	Public.	35		347	....
Hardan road	Pow. House Bd	Ware st.	Private.	20 and 40		....	283
Harding	No. of Ward st.	Cambridge line	Public.	30		465	....
Harold	Dimick st.	Marion st.	Public.	40		316	....
Harold	Gordon st.	Medford line	Private.	40		....	48
Harrison	Ivaloo st.	Kent st.	Public.	40		644	....
Harrison	Elmwood st.	Southeasterly	Public.	40		....	210
Harvard pl.	Harvard st.	Westerly	Private.	35		....	200
Harvard	Summer st.	Beech st.	Public.	40		717	....
Hathorn	Broadway	Arlington st.	Public.	40		339	....
Hawkins	Somerville ave.	Washington st.	Public.	40		330	....
Hawthorne	Willow ave.	Cutter ave.	Public.	30		807	....
Hayden ter.	Linden ave.	Easterly	Private.	20		....	120
Heath	Temple st.	Bond st.	Public.	45		1,043	....
Heath	Bond st.	Moreland st.	Public.	40		754	....
Henderson	Richardson st.	B. & L. R. R.	Public.	20		569	....
Hennessy ct.	Medford st.	Fisk ave.	Private.	20		....	250
Henrietta ct.	Somerville ave.	Northerly	Private.	8 and 20		....	161
Henry ave.	Highland ave.	Lexington ave.	Public.	40		290	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length	
			Public	Private		
Herbert	Chester st.	Day st.	Public.	40	337	....
Hersey	Berkeley st.	Oxford st.	Private.	40	....	230
Higgins ct.	Mt. Vernon st.	Westerly	Private.	16	....	149
High	North st.	Pow. House Bd	Private.	40	....	673
Highland ave.	Medford st.	Davis sq.	Public.	60	9,135	....
Highland path, east	Morrison ave.	Arlington Br. , R. R.	Private.	10	....	107
Highland path, west	Morrison ave.	Arlington Br. , R. R.	Private.	10	....	108
†Highland rd.	Morrison ave.	Boston ave.	Pub. 30(70wide)	1,499	....	....
Hill	Broadway	Fairmount ave.	Public.	40	284	....
Hillsdale rd.	Conwell ave.	Sunset rd.	Private.	40	....	632
Hillside ave.	Pearl st.	Southwesterly	Private.	30	....	150
Hillside cir.	Craigie st.	Westerly	Private.	16	....	151
Hillside pk.	Walnut st.	Northwesterly	Public.	40	196	....
Hinckley	Broadway	B. & L. R. R.	Public. 30 and 35	1,081	....	....
Hodgdon pl.	Dane ave.	Northeasterly	Private. about 20	....	150	....
Holland	Davis sq.	Broadway	Public.	60	2,696	....
Holt's ave.	Oak st.	Southeasterly	Private.	10	....	100
Holyoke road	Elm st. around	to Elm st.	Public.	40	637	....
Homer sq.	Bonner ave.	Northwesterly	Public.	30+	200	....
Horace	South st.	Fitchburg R. R.	Public.	30	517	....
Houghton	Springfield st.	Cambridge line	Public.	40	653	....
Howard	Thorndike st.	Gorham street	Public.	40	431	....
Howe	Marshall st.	School st.	Public.	40	445	....
Hudson	Central st.	Cedar st.	Public.	40	2,760	....
Hunting	South st.	Cambridge line	Private.	30	....	125
Ibbetson	Somerville ave.	Lowell st.	Public.	40	802	....
Illinois ave.	Broadway	Penn. ave.	Public.	40	427	....
Indiana ave.	Broadway	Penn. ave.	Public.	40	384	....
Irving	Holland st.	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st.	Park st.	Public.	40	685	....
James	Pearl st.	Radcliffe road	Public.	40	320	....
Jaques	Fellsway west	Temple st.	Public.	40	1,182	....
Jaques	Temple st.	Bond st.	Public.	45	1,005	....
Jaques	Bond st.	Edgar ave.	Public.	40	395	....
Jasper pl.	Walnut st.	Easterly	Private.	20	....	80
Jasper	Pearl st.	Gilman st.	Public.	40	283	....
Jay	Holland st.	Howard st.	Public.	40	534	....
Jerome ct.	Sycamore st.	Jerome st.	Private.	10	....	150
Jerome	Montrose st.	Jerome ct.	Private.	20	....	125
Jerome	Lawrence rd.	Mystic Val. py	Private.	40	....	495
Joseph	Newton st.	Lincoln pky	Public.	40	458	....
Josephine ave.	Morrison ave.	Broadway	Public.	45	1,718	....
Joy	Washington st.	Poplar st.	Public.	30	1,121	....
Joy St. pl.	Joy st.	Southwesterly	Private.	16	....	168
Kenneson road	Broadway	Walnut road	Private.	30	....	338
Kensington av.	Broadway	Blakeley ave.	Public.	40	455	....
*Kensington av	Blakeley ave.	Middlesex ave.	Private.	40	....	1,150
Kent ct.	Kent st.	Northerly	Private. about 25	....	420	....
Kent	Somerville ave.	Fitchburg R. R.	Public.	40	292	....
Kent	Fitchburg R. R.	Beacon st.	Public.	25	386	....
Kenwood	College ave.	Billingham st.	Public.	40	322	....
Kidder ave.	College ave.	Boston ave.	Public.	40	2,554	....
Kilby	Somerville ave.	Southwesterly	Private.	20	....	180
Kilsyth road	Broadway	Medford line	Private.	40	....	5
Kimball	Lowell st.	Craigie st.	Private.	40	....	303
Kingman road	Washington st.	Fitchburg R. R.	Private.	25	....	400
Kingston	Meacham road	Cambridge line	Public.	40	647	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Tufts st.	N'E' line Est. 37	Public.	40	461	....
Knowlton	End of above	Oliver st.	Private.	40	....	464
Lake	Hawkins st.	Church st.	Public.	40	840	....
Lamson ct.	Linwood st.	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Public.	40	228	....
Langmaid ave.	Broadway	Heath st.	Public.	30	353	....
Latin way	Talbot ave.	Professors row	Private.	60	....	250

*Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length	
			Public	Private		
Laurel ave.	Laurel st.	Northwesterly	Private.	18	....	125
Laurel	Somerville ave.	Summer st.	Public.	40	983	....
Lawrence road	Medford line	Mystic Val. py	Private.	40	....	585
Lawson ter.	Putnam st.	Easterly	Private.	5	....	200
Lee	Medford st.	Richdale ave.	Public.	40	385	....
Leland	Washington st.	Dane ave.	Public.	40	359	....
Leon	Concord ave.	Dickinson st.	Public.	40	155	....
Leonard pl.	Joy st.	Northeasterly	Private.	13+	....	98
Leonard	Broadway	Pow. House Bd.	Public.	40	450	....
Lesley ave.	Highland ave.	Lexington ave.	Public.	40	333	....
Leslie pl.	Highland ave.	Northerly	Private.	12	....	75
Lester ter.	Meacham road	Northwesterly	Private.	20	....	190
Lewis	Magnus ave.	Easterly	Private.	40	....	416
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	....
Lexington ave.	Hancock st.	Angle	Public.	45 to 40	147	....
Lexington ave.	Angle	Cedar st.	Public.	40	578	....
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	....
Liberty rd.	Morrison ave.	Liberty ave.	Private.	16	....	200
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Public.	30	478	....
Lincoln pky	Washington st.	Perry st.	Public.	40	1,520	....
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave.	Elm st.	Cedar ave.	Public.	45	1,413	....
Linden circle	Linden ave.	Southeasterly	Private.	24	....	120
Linden pl.	Linden ave.	Northwesterly	Private.	20	....	160
Linden	Somerville ave.	Charlestown st.	Public.	33	587	....
Line	Washington st.	Cambridge line	Public.	33	1,727	....
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	....	150
Linwood	Somerville ave.	Washington st.	Public.	50	2,114	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340
Loring	Somerville ave.	Osgood st.	Public.	40	413	....
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave.	Public.	40	385	....
Lowden ave.	Broadway	Fosket st.	Public.	40	1,247	....
Lowell	Somerville ave.	Summer st.	Public.	36	1,259	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....
Lowell circle	Lowell st.	Westerly	Priv. 11 and 27.5	....	....	143
Lowell ter.	Lowell st.	Northwesterly	Private.	20	....	150
Madison	School st.	Sycamore st.	Public.	40	891	....
Magnus ave.	Washington st.	Southerly	Private.	40	....	509
Main	Broadway	Medford line	Public.	50	966	....
Maine ave.	Mystic ave.	Penn. ave.	Public.	40	379	....
Maine ter.	Maine ave.	Southeasterly	Private.	32	....	205
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360
Mallet	Willow ave.	Liberty ave.	Public.	40	657	....
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	255
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	....
Mansfield	Somerville ave.	Washington st.	Public.	40	735	....
Maple ave.	School st.	Southeasterly	Private.	40	....	300
Maple pl.	Marshall st.	Maple ave.	Private.	5	....	125
Maple	Poplar st.	Medford st.	Public.	30	699	....
Mardel circle	Spring st.	Northwesterly	Private.	8	....	140
Marion	Concord ave.	Dimick st.	Public.	40	1,141	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason	Broadway	Pow. House Bd.	Public.	40	681	....
May pl.	Hawkins st.	Easterly	Private.	12	....	100
McCarroll ct.	Clyde st.	Southwesterly	Private.	25	....	75
McCulphe pl.	Medford st.	Easterly	Private.	10	....	110
McGregor ave.	Wigglesworth st.	Walnut st.	Private.	13	....	302
Meacham road	Dover st.	Cambridge line	Public.	40	1,060	....
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	....
Mead	Cameron ave.	Moore st.	Private.	40	....	340
Medford	Cambridge line	Central st.	Public.	50	8,047	....
Medford	Central st.	Broadway	Public.	55	1,985	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	2,310
Melvin	Broadway	Bonair st.	Public.	40	487	....
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	255
Merriam	Washington st.	Somerville ave.	Public.	40	360	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Merriam	Somerville ave.	Charlestown st.	Public.	30	510	....
Michigan ave.	Broadway	Penn. ave.	Public.	40	470	....
†Middlesex ave.	Mystic ave.	Fellsway	Public.	60	2,304	....
Milk pl.	Somerville ave.	Southwesterly	Private.	about 30	....	100
Miller	Sacramento st.	Beacon st.	Private.	33	....	465
Milton	Orchard st.	Cambridge line	Public.	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave.	Broadway	Penn. ave.	Public.	40	525	....
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st.	Private.	35	....	200
Montgomery av.	Broadway	Wellington ave.	Public.	40	265	....
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Public.	40	1,471	....
Morgan	Beacon st.	Park st.	Public.	40	377	....
Morrison ave.	Cedar st.	Willow ave.	Public.	50	1,366	....
Morrison ave.	Willow ave.	College ave.	Public.	40	1,690	....
Morrison pl.	Morrison ave.	Northerly	Private.	20	....	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	....	175
Mortimer pl.	Marshall st.	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave.	Elm st.	Public.	40	377	....
Mountain ave.	Porter st.	nr Linden ave.	Public.	22	280	....
Mountain ave.	End acptd part	Linden ave.	Private.	22	....	30
Mousal pl.	No. Union st.	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	584	....
*Mt. Vernon av.	Meacham st.	Mystic ave.	Private.	50	....	764
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	473	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	590	....
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st.	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle pl.	Myrtle st.	Westerly	Private.	20+	....	120
Myrtle	Washington st.	Perkins st.	Public.	40	1,423	....
Mystic ave.	Charlestown line	Union st.	Public.	60	378	....
††Mystic ave.	Union st.	Medford line	Public	66	6,938	....
Mystic	Benedict st.	Mystic ave.	Public.	40	336	....
†Mystic Valley Parkway	Medford line	Arlington line	Public.	60	2,530	....
Nashua	Richardson st.	B. & L. R. R.	Public.	35	637	....
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison ave.	Public.	40	200	....
Newberne	Morrison ave.	R. R.	Private.	40	....	173
Newbury park	Newbury st.	Southeasterly	Private.	55	....	68
Newbury	Holland st.	Cambridge line	Public.	40	1,260	....
N. Hampshire ave.	Mystic ave.	Penn. ave.	Public.	40	406	....
Newman pl.	Cedar st.	Southeasterly	Private.	15	....	100
Newton pl.	Newton st.	Easterly	Private.	about 10	....	100
Newton	Prospect st.	Webster ave.	Public.	25	470	....
Newton	Webster ave.	Concord ave.	Public.	40+	637	....
Norfolk	Webster ave.	Cambridge line	Public.	40	283	....
North	Broadway	Medford line b. 17	Public.	40	1,961	....
North	Medford line b. 17	Medford line b. 18	Public	37 to 42	649	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....
Oak Circle	Cambridge line	Northerly	Private.	30	....	35

*Proposed.

††State Highway Austin St. to Medford line.

‡Metropolitan Park Commission Boulevard.

†State Highway.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length Public	Private
Oak	Prospect st.	Angle	Public.	40	665	....
Oak	Angle	Cambridge line	Public.	30	563	....
Oak St. pl.	Oak st.	Northerly	Private.	4	....	85
Oak ter.	Elm st.	Northeasterly	Private.	10+	....	90
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Peterson ter.	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,085	....
Orchard	Cambridge line	Meacham road	Public.	40	1,567	....
Osgood	Granite st.	E'ly & w'ly	Private.	40	....	450
Ossipee road	Mason st.	Curtis st.	Public.	40	1,375	....
Otis	Cross st.	Wigglesworth st	Public.	40	1,200	....
Oxford	School st.	Central st.	Public.	35	1,361	....
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Professors row	Public.	60	1,758	....
Packard ave.	Professors row	Medford line	Private.	60	....	240
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	College ave.	Wallace st.	Public.	40	467	....
Park pl.	Laurel st.	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly	Private.	20	....	120
Park	Somerville ave.	Beacon st.	Public.	50	1,238	....
Parkdale	Washington st.	Montvale st.	Private.	40	....	500
Parker pl.	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Public.	35	203	....
Partridge ave.	Vernon st.	Broadway	Public.	40	1,467	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Public.	40	769	....
Pearl	Crescent st.	Mt. Vernon st.	Public.	37	341	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	957	....
Pearl	Franklin st.	Cross st.	Public.	40	1,060	....
Pearl	Cross st.	Medford st.	Public.	50	2,447	....
Pearl St. pl.	Pearl st.	Northeasterly	Public.	20	166	....
Pearl ter.	Pearl st.	Northerly	Private.	23	....	161
Pearson ave.	Morrison ave.	Boston ave.	Public.	45	1,320	....
Pearson road	Broadway	Dearborn road	Public.	40	1,713	....
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Public.	40	430	....
Penn. ave.	Broadway	Wisconsin ave.	Public.	50	1,112	....
Penn. ave.	Wisconsin ave.	Cross st.	Private.	40	....	350
Perkins pl.	Perkins st.	Northeasterly	Private.	20	....	200
Perkins	Franklin st.	Charlest'n line	Public.	40	1,336	....
Perry	Washington st.	Lincoln pkway	Public.	40	606	....
Peterson ter.	Porter st.	Olive ave.	Private.	7.5	....	155
Philips pl.	Spring st.	Westerly	Private.	15+	....	100
Pinckney pl.	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,186	....
Piper ave.	Cedar st.	Westerly	Private.	20	....	461
Pitman	Beech st.	Spring st.	Private.	30	....	380
Pitman	Spring st.	Belmont st.	Private.	26	....	390
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	543	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R.	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220
Porter	Elm st.	Mountain ave.	Public.	45	1,622	....
Porter	Mountain ave.	Highland ave.	Public.	40	415	....
Powder house boulevard	Powder house square	Alewife Brook Parkway	Public.	80	4,560	....
Pow. house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prentiss	Beacon st.	Cambridge line	Private.	35	....	150
Prescott	Summer st.	Highland ave.	Public.	50	1,110	....
Preston road	School st.	Summer st.	Public.	40	839	....
Prichard ave.	Morrison ave.	Boston ave.	Public.	40	1,191	....
Princeton	Alpine st.	Lowell st.	Public.	40	648	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Proposed	Fellsway	Middlesex ave.	Private.	40	....	195
Proposed	Fellsway	Middlesex ave.	Private.	40	....	315
Proposed	Fellsway	Middlesex ave.	Private.	40	....	340
Prospect	Washington st.	Cambridge line	Public.	50	2,071	....
Prosp't Hill av.	Medford st.	Munroe st.	Public.	40	597	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length Public	Length Private
Prospect Hill pky	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,262	....
Quincy	Somerville ave.	Summer st.	Public.	40	781	....
Radcliffe road	Walnut st.	Bradley st.	Public.	35	392	....
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	....
Randolph pl.	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record ct.	Broadway	Southwesterly	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly	Private.	20	....	105
Remick ct.	Cutter st.	Southeasterly	Private.	10	....	100
Rhode Is. ave.	Mystic ave.	Penn. ave.	Public.	40	460	....
Richardson	Lowell st.	Hinckley st.	Public.	35	467	....
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Roberts	Hinckley st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Boston ave.	Public.	45	1,682	....
Roland	Waverly st.	Boston line	Private.	40	....	100
Rose	Washington st.	Lewis st.	Private.	40	....	450
Roseland	Beacon st.	Cambridge line	Public.	40	121	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell rd.	Broadway	N. line Hamil- ton rd.	Public.	40	559	....
Russell rd.	N. Line Ham- ilton rd.	Northerly	Private.	40	....	75
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line	Public.	40	154	....
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st.	Northwesterly	Private.	30	....	176
Sargent ave.	Broadway	Walnut st.	Public.	40	1,075	....
Sartwell ave.	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,901	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly	Private.	12	....	120
Seven Pines av.	Cameron ave.	Cambridge line	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut	Washington st.	Cross st.	Public.	40	575	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway	Holland st.	Public.	40	1,018	....
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave.	Pearl st. around	Pearl st.	Private.	40	....	540
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200
Snow ter.	Jaques st.	Southwesterly	Private.	16	....	120
Somerville ave.	E. Camb. line.	Union sq.	Public.	75	4,325	....
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	....
South	Medford st.	Water st.	Public.	30	989	....
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200
Spring	Somerville ave.	Summer st.	Public.	40	1,220	....
Springfield	Concord ave.	Cambridge line	Public.	40	788	....
Spring Hill ter.	Highland ave.	Belmont st.	Private.	20	....	670
Stanford ter.	Beacon st.	Northeasterly	Private.	20	....	200
Steeves circle	Cherry st.	Easterly	Private.	15	....	120
*Sterling st.	North st.	Pow. House Bd.	Private.	40	....	800
Stickney ave.	Marshall st.	School st.	Public.	40	458	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	....
St. James ave. ext.	Summer st.	Northeasterly	Public.	30	125	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet	Length	
			Public Private	Public	Private	
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	....
Stone ave.	Columbus ave.	Prospt Hill py.	Public.	38	107	....
Stone pl.	Stone ave.	Southeasterly	Public.	30	142	....
Strathmore rd.	Broadway	Medford line	Private.	40	....	15
Summer	Bow st.	Elm st.	Public.	45	7,900	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	532	....
Summit	College ave.	Billingham st.	Public.	40	262	....
Sumner	Hinckley st.	Northwesterly	Private.	20	....	175
Sunnyside ave.	Walnut st.	Wigglesworth st	Public.	25 to 35	306	....
Sunset rd.	Curtis st.	Hillsdale road	Private.	40	....	658
Sycamore	Broadway	Medford st.	Public.	45	1,275	....
Sycamore	Medford st.	B. & L. R. R.	Public.	40	667	....
Sycamore	B. & L. R. R.	Highland ave.	Public.	35	722	....
Sydney	Grant st.	Temple st.	Public.	40	679	....
Talbot ave.	Packard ave.	College ave.	Private.	50	....	1,409
*Tannery Ex.	Cambridge line	Woodstock st. (Ext'n)	Private.	40	....	160
Taunton	Wyatt. st.	East'y to angle	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor pl.	Somerville ave.	Southerly	Private.	15	....	200
Taylor	Mystic ave.	Sydney st.	Public.	40	309	....
Teele ave.	Packard ave.	Curtis st.	Public.	40	685	....
Temple	Broadway	Mystic ave.	Public.	66	1,637	....
Tenney ct.	Mystic ave.	Northeasterly	Private.	30	....	400
Tennyson	Forster st.	Pembroke st.	Public.	40	922	....
Thorndike	Holland st.	Arlington Br.				
Thorndike	Arlington Br.	R. R.	Public.	40	465	....
	R. R.	Kingston st	Public.	40	115	....
Thorpe	Highland ave.	Southwesterly	Public.	30	468	....
Thurston	Broadway	Richdale ave.	Public.	40	1,660	....
Timmins pl.	Dane st.	Westerly	Private.	3.5	....	97
Tower ct.	Tyler st.	Northeasterly	Private.	25	....	150
Tower	Crown st.	Highland ave.	Public.	40	559	....
Tremont pl.	Tremont st.	Southeasterly	Private.	about 10	....	75
Tremont	Webster ave.	Cambridge line	Public.	40	589	....
Trull	Vernon st.	Medford st.	Public.	40	1,050	....
Trull lane	Highland ave.	Oxford st.	Private.	15	....	200
Tufts parkway	College ave.	College ave.	Public.	22	900	....
Tufts	Washington st.	Cross st.	Public.	40	982	....
Turner ct.	Franklin st.	Westerly	Private.	20	....	150
Tyler	Vine st.	Dane st.	Public.	40	404	....
Union	Broadway	Mystic ave.	Public.	40	345	....
Union pl.	Linwood st.	Southwesterly	Private.	10	....	100
Upland Park	Main st.	Southwesterly	Private.	20	....	175
Vermont ave.	Mystic ave.	Penn. ave.	Public.	40	433	....
Vernon	Central st.	Glenwood road	Public.	40	764	....
Vernon	Glenwood road.	Partridge ave.	Public.	40 to 30	190	....
Vernon	Partridge ave.	Lowell st.	Public.	30	434	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....
Villa ave.	Winslow ave.	Arlington Br.				
		R. R.	Private.	35	....	200
Village	Dane st.	Vine st.	Private.	25	....	370
Vinal ave.	Summer st.	Highland ave.	Public.	45	1,425	....
Vinal	Richardson st.	Northeasterly	Private.	20	....	200
Vine ct.	Vine st.	Northwesterly	Private.	25	....	140
Vine	Somerville ave.	Fitchburg R. R.	Public.	40	540	....
Vine	Fitchburg R. R.	Hanson st.	Private.	40	....	222
Vine	Hanson st.	Beacon st.	Public.	30	662	....
Virginia	Aldrich st.	Jasper st.	Public.	40	405	....
Wade ct.	Cedar st.	Westerly	Private.	20	....	180
Waldo ave.	Beacon st.	Dimick st.	Public.	40	277	....
Waldo	Highland ave.	Hudson st.	Public.	40	287	....
Walker	Broadway	Leonard st.	Public.	40	713	....
Wallace	Holland st.	Broadway	Public.	40	1,342	....
Walnut	Bow st.	Broadway	Public.	40	3,948	....
Walnut road	Walnut st.	Kenneson road	Public.	40	270	....
Walter terrace	Walter st.	Southwesterly	Public.	40	222	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public or	Width in	Length	
			Private	Feet	Public	Private
Walter	Walnut st.	about 100 ft N. of Bradley st.	Public.	40	548	....
Ward	Medford st.	Harding st.	Public.	30	433	....
Ware	Curtis st.	Russell rd.	Public.	40	749	....
Warner	Pow. House sq.	Medford line	Public.	60	500	....
Warren ave.	Union sq.	Columbus ave.	Public.	40	663	....
Warren	Medford st.	Cambridge line	Public.	30 to 40	109	....
Warwick place	Warwick st.	Northeasterly	Private.	15	....	150
Warwick	Cedar st.	Warwick pl.	Public.	40	665	....
Washington av.	Washington st.	Northerly	Private.	18	....	350
Washington pl.	Washington st.	Southerly	Private.	about 7.5	....	114
Washington	Charlest'n line	Franklin ave.	Public.	75	1,060	....
Washington	Franklin ave.	Fitchburg R. R.	Public.	60 to 100	3,977	....
Washington	Fitchburg R. R.	Cambridge line	Public.	60	2,344	....
Water	South st.	Northerly	Public.	25	366	....
Waterhouse	Broadway	Cambridge line	Public.	40	987	....
Watson	Broadway	Fairmount ave.	Private.	40	....	236
Waverly	Washington st.	Roland st.	Private.	35	....	200
Webster ave.	Union sq.	Cambridge line	Public.	49.5	1,955	....
Webster	Franklin st.	Cross st.	Public.	40	1,034	....
Wellington ave.	Walnut st.	Montgomery av	Public.	40	215	....
Wellington ave.	Montgomery av.	Easterly	Private.	40	....	85
Wesley pk.	Wesley sq.	Northeasterly	Public.	40	405	....
Wesley	Pearl st.	Otis st.	Public.	40	515	....
West	Hawthorne st.	Highland ave.	Public.	30	192	..
West	Highland ave.	Arlington Br. R. R.	Private.	30	....	266
West Adams	Conwell ave.	Medford line	Public.	40	710	....
Westminster	Broadway	Electric ave.	Public.	40	376	....
Weston ave.	Clarendon ave.	Broadway	Private.	40	....	525
West Quincy	Bailey st.	Medford line	Private.	40	....	291
Westwood road	Central st.	Benton road	Public.	40	489	....
Wheatland	Broadway	Mystic ave.	Public.	40	1,364	....
Wheeler	Pinckney st.	Mt. Vernon st.	Public.	40	269	....
Whipple	Highland ave.	Arlington Br. R. R.	Private.	30	....	318
†White	Elm st.	Cambridge line	Public.	..	307	....
White St. pl.	White st.	Southeasterly	Private.	20	....	200
Whitfield road	Packard ave.	Curtis st.	Public.	40	687	....
Whitman	Mason st.	Packard ave.	Public	40	632	....
Wigglesworth	Bonair st.	Pearl st.	Public.	40	744	....
William	Chandler st.	College ave.	Public.	40	381	....
William	Broadway	Medford line	Private.	50	....	50
Williams ct.	Porter st.	Northwesterly	Private.	30	....	454
Willoughby	Central st.	Sycamore st.	Public.	40	427	....
Willow ave.	Elm st.	Broadway	Public.	50	3,534	....
Willow pl.	Cambridge line	South st.	Public.	25	125	....
Wilson ave.	Broadway	B. & L. R. R.	Public.	20	307	....
Wilton	Lowell st.	Hinckley st.	Public.	35	470	....
Winchester	Broadway	Medford line	Private.	40	....	65
Windom	Elm st.	Summer st.	Public.	40	300	....
Windsor road	Willow ave.	Hancock st.	Public.	40	575	....
Windsor st. Ex.	Windsor st., Camb.	Fitchburg R. R.	Private.	20	....	530
Winslow ave.	College ave.	Clifton st.	Public.	40	1,123	....
Winter	College ave.	Holland st.	Public.	30	402	....
Winter Hill cir.	Broadway	Northeasterly	Private.	25	....	177
Winthrop ave.	Mystic ave.	Middlesex ave.	Private.	40	....	583
Wisconsin ave.	Broadway	Penn. ave.	Public.	50	499	....
Woodbine	Centre st.	Westerly	Private.	30	.....	461
Woodbine Ex.	End of above	Lowell st.	Private.	35	.....	212
*Woods ave.	North st.	Pow. House Bd.	Private.	40	....	1,135
Woodstock	Victoria st.	Alewife brook	Public.	40 to 32	403	....
*Woodstock (Extension)	Victoria st.	Tannery st. (Ext'n.)	Private.	40	....	920
Wyatt circle	Wyatt st. around	to Wyatt st.	Private.	20	....	315
Wyatt	Concord ave.	Lincoln pkway	Public	40	496	....
Yorktown	Cambridge line	N. E. line				
	N. E. line	Malvern ave.	Public.	40	294	....
Yorktown	Malvern ave.	Northerly	Private.	40	....	100

*Proposed.

†Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Court	39 Adams st.	Southeasterly	Private.	8	....	90
Court	Albion st.	Central st.	Private.	12	....	216
Court	11 Albion st.	Northeasterly	Private.	9	....	178
Court	21 Albion st.	Northeasterly	Private.	10	....	100
Court	292 Broadway	Southwesterly	Private.	15	....	90
Court	612 Broadway	Southwesterly	Private.	20	....	188
Court	Buena Vista rd.	Easterly	Private.	15	....	145
Court	Cambria st.	Northerly	Private.	9	....	59
Court	12 Carlton st.	Southeasterly	Private.	25	....	75
Court	112 Central st.	Northwesterly	Private.	10	....	168
Court	113 Central st.	Southeasterly	Private.	20	....	150
Court	227 Columbia st.	Northwesterly	Private.	10	....	117
Court	Conlon ct.	Windsor st. ex.	Private.	20	....	240
Court	36 Craigie st.	Westerly	Private.	25	....	126
Court	59 Craigie st.	Easterly	Private.	23.63	....	129
Court	58 Dane st.	Easterly	Private.	10	....	70
Court	20 Dimick st.	Southwesterly	Private.	39.25	....	136
Court	91 Franklin st.	Westerly	Private.	12	....	171
Court	66 Lowell st.	Westerly	Private.	25	....	101
Court	78 Lowell st.	Westerly	Private.	25	....	101
Court	101 Medford st.	Easterly	Private.	8	....	75
Court	Sacramento st.	Southeasterly	Private.	25	....	318
Court	10 Stone ave.	Northwesterly	Private.	20	....	113
Court	Windsor st. ex.	E'ly and W'ly	Private.	20	....	370
Total				442,710		89,405

Public, 83.846 miles [includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private 16.933 miles.

Total length of streets in the city, 100.779 miles.

REPORT OF THE STREET COMMISSIONER

OFFICE OF THE STREET COMMISSIONER,
CITY HALL, Somerville, January 1, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I most respectfully submit the forty-third annual report, containing a brief summary of the principal work performed by the highway department, by day labor and contract during the year 1918, with recommendations for necessary additions for the coming year.

This department has charge of the construction, alteration, repair, maintenance and management of ways, streets, sidewalks and bridges; the setting out and care of shade trees, the suppression of gypsy and brown-tail moths and elm-leaf beetles; the watering and oiling of streets.

Good roads in this country and in France helped to win the war. In France troops and supplies were rushed to the front, and in this country supplies were carried to the sea-coast over the roads in auto trucks. Army officials will say that in the defence of Paris, the good roads and auto trucks helped to check the enemy, by landing the troops where they were most needed. Had it not been for her system of good roads, France would have been at a great disadvantage in her war work.

Highway Maintenance.

On account of the war, the high cost of materials and scarcity of labor, this city, like most surrounding cities, did not do any extensive permanent construction, but did do some good work in the repairing of streets. I believe in the old saying "A stitch in time saves nine."

I know the Mayor has started right in not borrowing money on short terms, for what we call Tarvia Macadam Paving. "Pay as you go" is good policy.

As the Auto Truck traffic increases, and we all know it will, our streets are going to be subject to rapid and heavy travel, which will necessitate a crew of repair men on our main streets continually.

\$72,168.24 was expended for Highway Maintenance.

Underground Wires

No extensive work was done in this line this year. The Boston Elevated constructed conduits on Broadway, north side, from near Grant street to opposite School street.

Snow and Ice.

\$4,709.56 was expended for the care of snow and ice. 1,364 cubic yards of snow and ice were removed. 642 cubic yards of sand and 2,000 pounds of dust were used in caring for icy sidewalks and crossings.

Crushed Stone.

The William J. McCarthy Co. furnished 67 tons of local crushed rock at \$1.50 per ton, at their crusher, and 2,943 tons at \$1.90 on line of work; Coleman Brothers 812 tons of trap rock at \$2.00 per ton on line of work.

I recommend the purchase of a portable crushing plant, electric power, to be erected at the city yard.

Bridges.

The bridges are in good condition. The Boston & Maine have replanked several of their bridges.

Steam Rollers.

No. 1 roller worked	70½ days.
No. 2 roller worked	69½ days.
No. 3 roller worked	24½ days.
No. 4 roller worked	120½ days.

The old No. 2 roller should be exchanged for a new fifteen-ton roller with scarifier attachment.

Sidewalks Maintenance.

Where there is to be any extensive repairs of brick sidewalks, the bricks should be substituted with granolithic.

1,573 linear feet of edgestones were reset. 467 square yards of brick sidewalks were relaid.

All police reports were attended to immediately.

\$6,207.51 was expended for Sidewalks Maintenance.

Street Sprinkling.

A storage tank should be erected in the city yard for road oil.

This account should be assessed in the general tax, then

private ways would be sprinkled the same as public streets and all the citizens would receive the same benefit.

All the squares were flushed early every morning and the main streets sprinkled during the day by the American Car Sprinkler Co. under contract at \$885.00 per month. The squares, in the winter time, were sprinkled with calcium chloride, a non-freezing compound.

Dust layers used during the year:—

38,450 gallons of Besco Oil.
 40,186 gallons of Emerald Oil.
 9,060 gallons of Water Gas Tar.
 82,227 gallons of Tarvia "B" (Barrett's).
 4,000 gallons of Tarbinder (Independent).
 1,000 pounds of Calcium Chloride.

\$36,626.26 was expended for Street Sprinkling.

Street Cleaning

The public must co-operate with the city if they expect clean streets. The person who throws papers or rubbish in the streets must realize that he makes the task of the street cleaners, harder. Let everybody remember that the duty of keeping the streets clean in our city is, by no means, one-sided.

This department has done its utmost to keep the streets clean and keep within the appropriation.

6,726 cubic yards of street sweepings were removed.

\$25,195.92 was expended for Street Cleaning.

Suppression of Moths.

Public and private trees were cared for in regard to moths. Bushes, vines, fences and foundations, public and private, were also inspected.

7,196 street trees were inspected and cared for.
 9,686 private trees were inspected and cared for.
 4,322 bushes were found moth infested.
 90 vines moth infested.
 128 fences and buildings on which moths nested.
 20,942 gypsy moth nests were painted with creosote.
 51 brown-tail moth nests were gathered and destroyed.
 7,310 trees were sprayed by the gasoline spraying machine to exterminate the elm-leaf beetle.

The decrease in the number of brown-tail moth and gypsy moth nests as compared with last year shows that these pests are well under control, and with the co-operation of private property owners, who are required under the statutes to destroy all moth nests, both on trees and buildings, there should be a marked decrease the coming year.

\$4,163.81 was expended for the Suppression of Moths.

Shade Trees.

The City Government should make an appropriation to care for the leopard-moth which is destroying many of our trees.

There are many dead and unsightly trees that I intend to remove the coming year.

59 trees were set out.
143 trees were removed.
125 trees were trimmed.
408 tree-guards and supports installed.

\$2,759.39 was expended for the Care of Trees.

Highways Construction—New Streets.

Seven new streets were constructed during the year under the Betterment Act. Five by city employees and two by contract.

The average cost of new streets by contract was \$9.01 per linear foot.

The average cost of new streets by City employees was \$8.30 per linear foot.

New street construction consists of:—Edgestone, concrete gutters and bituminous macadam.

No new streets were accepted this year.

Ten streets accepted in 1917 must be constructed the coming year.

\$30,367.61 was expended for New Streets.

Streets Constructed in 1918.

STREET.	FROM	TO	MATERIAL.	LENGTH IN FEET.	COST.
Burnham street	Broadway	P. H. Boulevard	Bituminous macadam.....	543	\$4,508.10
Electric avenue	Mason street	Packard avenue	"	633	5,454.90
Hamilton road	Russell road	North street	"	560	4,166.09
Mason street	Broadway	P. H. Boulevard	"	681	6,720.37
*Michigan avenue	Broadway	Pennsylvania avenue ...	"	470	4,138.41
†Mountain avenue	Porter street	Near Linden avenue.....	"	280	401.04
equiduneH avenue	Pennsylvania avenue ...	Mystic avenue	"	406	3,073.89
Walter terrace	Walter street	Southwesterly	"	222	1,875.56

*Streets constructed by contract.

†Partly constructed in 1917, completed in 1918.

Highways Construction—Permanent Pavement.

Following is a list of the Permanent Paving in the city:—

Streets paved with with granite blocks	5.01 miles
Streets paved with concrete	1.42 miles
Streets paved with asphaltic top	2.59 miles
Streets paved with brick	1.29 miles
Streets paved with Bicomac	0.77 miles
Streets paved with bitulithic	0.06 miles
Streets paved with concrete base and bituminous top	5.98 miles
<hr/>	
Total length of Permanent Pavement	17.12 miles

Sidewalks Construction.

Miles of edgestone, granolithic, brick and gravel sidewalks in the city:—

Length of edgestones	144.278 miles
Granolithic sidewalks	50.598 miles
Brick sidewalks	71.629 miles
Gravel sidewalks	24,616 miles

Miscellaneous.

- 42 driveways were constructed.
- 3 driveways were discontinued.
- 2 driveways were extended.

Driveways are constructed, discontinued and extended at the expense of the petitioners.

Length of public streets, 83.846 miles.

Three horses were killed on account of disability during the year.

The department maintains its own municipal repair shop for the different lines of work.

I have attended meetings of the Public Works and of the different committees of the Board of Aldermen for consultation regarding work and petitions.

A safety zone has been established on Broadway at Walnut street, also the Ordinance relative to travel on public ways has been revised.

The subways under the Boston & Maine Railroad have been cleaned and painted.

Labor.

The regular employees were given two weeks' vacation and all employees, twelve months Saturday half holiday without loss of pay. Mayor Eldridge increased the pay of all employees, beginning April 1, 1918, to a minimum daily wage of \$3.00. Beginning October 20, 1918, another increase was given, 25c per day to laborers and 35c per day to drivers, making the daily wages of laborers \$3.25, drivers \$3.35, mechanics \$3.75 and engineers \$4.00.

Eight hours constitute a day's work.

The city does its own insuring for injured laborers. There are eleven former employees receiving pensions under the act providing for pensioning laborers.

There were during 1918:—

- 155 permits issued to the Cambridge and Charlestown Gas Companies.
- 117 permits issued to occupy streets and sidewalks.
- 18 permits issued to cross sidewalks.
- 22 permits issued to feed horses.
- 45 street watering complaints and requests.
- 320 notifications to other departments and corporations.
- 26 accident reports.
- 1,112 police reports.
- 204 brick and granolithic sidewalks repaired.
- 672 miscellaneous reports and requests.
- 19 drain layers permits.
- 823 water department openings.
- 79 permits to open streets and sidewalks.
- 13 danger signs erected
- 36 new signs erected.
- 100 signs repainted.
- 2,893 cubic yards sand and gravel used.
- 2,920 cubic yards dirt removed.
- 264 cubic yards old macadam used.
- 1,211 cubic yards of ashes used.
- 1,456 bags Portland Cement used.

Recommendations.

On account of the high cost of materials, I do not, at this time, feel like recommending any extensive reconstruction, but when prices become normal, I hope the city will continue the good work started a few years ago, in recutting the old granite blocks and replacing them on a concrete base, grouted joints, on such streets as Washington street and Somerville avenue, which are paved on a gravel base and sand joints.

The reservation on Broadway from Cross street to Boston line should be paved with granite paving blocks.

A garage should be erected at the city yard for the department's automobiles and trucks, and a suitable heating plant installed to heat the several work shops, doing away with individual stoves, thus saving coal and labor as well.

I wish to extend my sincere thanks to all for their support and hearty co-operation.

Respectfully submitted,

ASA B. PRICHARD,
Street Commissioner.

REPORT OF COMMISSIONER OF PUBLIC BUILDINGS

OFFICE OF COMMISSIONER OF PUBLIC BUILDINGS,
City Hall, Somerville, January 1, 1919.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen:—In accordance with the provisions of the City Charter, I submit herewith the annual report of the public buildings department for the year ending December 31, 1918.

The total valuation of the public property which is in the custody of the public buildings department is \$3,282,700.

The total expenditure for the year 1918 for the care and maintenance of this property was \$178,885.95.

This amount was expended as follows:—

	Janitors	Fuel	Light	Care and Repairs	Totals
School buildings .	\$39,817 44	\$55,821 81	\$5,778 92	\$30,639 75	\$132,057 92
Electrical Dept. .		655 01	87 73	154 95	897 69
Fire Buildings .		3,939 26	1,829 68	3,852 17	9,621 11
City Home Build- ings .		1,794 46	361 88	1,177 81	3,334 15
Contagious Hospi- tal .	400 14	2,168 12	660 24	935 29	4,163 79
Highway Buildings		324 52	190 51	376 79	891 82
Central Library .	1,429 24	246 11	875 88	536 77	3,088 00
West Branch Li- brary .	1,074 00	467 44	316 75	419 36	2,277 55
East Branch Li- brary .	680 72	349 24	95 51	380 01	1,506 18
Union Sq. Branch Library .	799 00	224 73	144 33	92 58	1,260 64
Municipal Buildings	3,676 82	2,010 18	1,243 60	2,850 02	9,780 62
Park Buildings .	348 00	78 49	234 51	181 72	842 72
Police Buildings .	1,350 15	2,003 24	486 85	896 91	4,737 15
Polling Places .		4 63	19 50	471 98	496 11
Sanitary Buildings		120 95	241 97	341 07	703 99
Sewer Buildings .		58 71	46 36	51 66	156 73
Water Buildings .		546 91	244 47	363 25	1,154 63
Bathhouse .	1,091 21			823 94	1,915 15
Totals . . .	\$50,666 72	\$70,814 51	\$12,858 69	\$44,546 03	\$178,885 95

Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter and as such during the past year has made 1,050 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1918:—

Buildings	WARDS.							Totals
	1	2	3	4	5	6	7	
Dwellings	9	13	4	6	11	4	13	60
Stores	3	2	1		1		1	8
Dwellings and stores	2	3	1					6
Garages	4	4	4	4	18	7	22	63
Storage	5	10				1	1	17
Manufactories		4			11	1	1	7
Sheds	3	2		1				6
Offices	1	2		2				5
Stables		1			1			2
Shops			1				3	4
Banks	1			1				2
Theatres							1	1
Miscellaneous	2	2		3	1		3	11
Totals	30	43	11	17	33	13	45	192

	Wood	Fire Resisting	Totals
New Buildings	19	64	83
Alterations	85	24	109
Totals	104	88	192

Buildings	WARDS.							Totals
	1	2	3	4	5	6	7	
Wood	18	27	6	12	14	6	17	100
Wood and cement		1					1	2
Wood and concrete		1						1
Wood and tile		1					1	2
Wood and metal	1							1
Fireproofed wood		1	1	3	1	1	2	9
Brick	4	5	1	2		2	1	15
Brick and concrete		2						2
Brick and wood	3	4			1			8
Cement block	3				5	3	13	24
Concrete			3		12	1	9	25
Concrete and wood							1	1
Steel	1	1						2
Totals	30	43	11	17	33	13	45	192

The number of plumbing permits issued during 1918 was . . . 146
 Number of permits for plumbing in new buildings, . . . 19
 Number of permits for plumbing in old buildings, . . . 127
 Number of buildings in which soil pipes were tested, . . . 85

The total estimated cost of the new buildings and alterations during the year 1918 was \$676,470, while the estimated cost in 1917 was \$883,412, showing a decrease of \$206,942.

The total number of permits issued during the year 1918, viz. 192, was 156 less than during the year 1917, when 348 permits for new buildings and alterations were issued.

This large decrease can be attributed to the high cost of labor and materials due to the European war and the restrictions placed on all kinds of building material by the government.

These restrictions were enforced by the War Construction Priority Board at Washington, D. C., which in turn appointed a State Board and a Local Board.

Our Local Board was composed of five members, namely, John J. McCarthy, Chairman, Messrs. Harrison W. Bowers, John E. Locatelli, Waldo D. Phelps and Commissioner George L. Dudley, Secretary.

Very fortunately the armistice was signed about two months after the committee was organized, but as prices of materials and labor still remain very high, building, to any great extent, still remains prohibitive, but all our hopes are strong for the future.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all of the eighty-six public buildings of the city and the grounds in connection therewith, the direction of all janitors in the city's employ, a force of nine mechanics who perform most of the work of keeping the buildings in repair, the inspection of the installation and care of all elevators, the supervision of the construction of all new municipal buildings, the maintenance of the public bathing beach and the public municipal baths in the Bennett and Bingham Schools and Lincoln Park.

The various activities in connection with the department work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

Coal.

During the year 1918, the shortage of coal added a great deal to the labor of the Commissioner and his assistants as well as to the expense of this department.

Each year a proposal for bids is advertised for supplying coal to this department. These proposals are for sealed bids for specified kinds of coal which must meet a laboratory test. These proposals are publicly opened on a specified date.

In the summer of 1917, when this department advertised for proposals for the supply of coal for the winter of 1917 and 1918, no bids were submitted for same.

However, a concern who had received the contract from this department for the previous year, although not wishing to sign a contract, undertook to attend to our wants which they were able to fill up to January 1, 1918.

The situation was then up to the Commissioner, who by strenuous efforts managed to obtain coal or other fuel to keep open the Municipal Buildings, Fire Stations, Police buildings,

and other working departments. School and Library buildings were closed and the coal supply in these buildings used elsewhere.

Every means was used by the Commissioner to obtain an added supply so that these buildings could be opened which he finally accomplished through the courtesy of the Boston & Maine Railroad and the Hinckley Rendering Company.

This department was obliged to hire labor, teams and trucks to handle this coal together with the added departmental work of keeping records of all weights, delivery receipts, etc.

The shutting down of heating plants in the various buildings caused considerable damage through freezing and bursting of pipes owing to settlements and sags in pipes in many of the old buildings, also the freezing of water mains entering these buildings.

These repairs were made at once and as soon as a supply of coal was received these buildings were put immediately into working commission.

As usual during the summer of 1918, the Commissioner again advertised for bids for supplying the coal for the city buildings for the winter of 1918 and 1919. However, he received no bids and was obliged to make the attempt to buy the supply of coal direct from the mines.

After many difficulties he was finally able to make a contract for the supply of coal for the year through the mine agent, to be delivered in cars direct to Somerville.

As this was a new departure from the regular custom of handling the coal supply and as the coal bins in the many public buildings were inadequate for holding a year's supply of coal, the Commissioner found it necessary to use additional space in the basements of several buildings. Temporary bins were constructed, and in those buildings where there was no extra room available, outside bins were constructed. It was also necessary to use a portion of the City Yard at Cedar Street to store additional coal for buildings where it was impossible to obtain extra space.

The Commissioner made a contract at an exceedingly low figure with a teaming contractor for teaming and housing this coal, and is pleased to say that the coal thus purchased and handled was at a considerable saving to the city.

Elevators.

According to an act of the Legislature the Building Commissioner is required to have every elevator in the city inspected yearly and a report of the conditions and necessary repairs made to the State District Police.

A plan and specifications of all new installations of elevators must be filed in this office and a certificate of approval granted by the Commissioner.

During the year 1918, there were 100 elevators inspected and ninety orders for repairs to be made sent to the owners.

Plans and specifications were filed and applications granted for the installation of nine new elevators.

School Buildings.

The maintenance and care of school buildings has as formerly demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Additional Accommodations.

During the year provision has been made for additional seating capacity in the schools for 600 pupils. This has been accomplished by the completion of the twelve-room Junior High School in ward three, known as the Southern Junior High School.

Upon the completion of this Junior High School, it became necessary to make changes in the arrangement of 1,000 desks and seats in five school buildings at a considerable outlay of time and money.

A new addition has been connected to the Boys' Vocational School which contains room for the instruction in the repair of automobiles.

On July 25, 1918, an order was passed by the Board of Aldermen appropriating the sum of \$17,000 for the construction of a new fireproof building in connection with the Boys' Vocational School, to be used as an automobile repair shop in order that the pupils might receive instruction in a large and growing industry.

Plans and specifications were prepared by the Commissioner of Public Buildings and the contract was awarded to the lowest bidder, J. Edward L. McLean of 163 Summer Street, Somerville.

The work of construction was commenced immediately after the signing of the contract and continued as speedily as possible until completion.

There were many complicated conditions that arose during the construction of this building due to the fact that we were unable to secure priority rights from the government, and this added greatly to the cost of the building and impeded the progress of construction.

The building is now being used by the pupils and proving

a great success, as shown by the large classes and the amount of work coming in.

It will be necessary and advisable the coming year to add another sectional boiler to the present heating system in order to do away with the three hot air furnaces now in the basement of the old or Davis School building, furnish new equipment, and fix up the grounds around these buildings.

Enclosed connecting passageways were built at the East Somerville School between the Prescott and Southworth buildings, and at the Northern Junior High School between the Forster and Forster Annex. This construction was an urgent and necessary affair as many pupils and teachers passed daily between these respective buildings and they are now protected from the inclement weather.

New combination furnaces have been installed at the Girls' Trade School which were greatly needed, and now permit heating of the third floor by radiators.

Eight of the school buildings, namely, the Edgerly, Bennett, Brown, Northern Junior High, East Somerville Junior High, Bingham, Lincoln and sixteen rooms in the High School were painted on the inside, and four, namely, the Baxter, Hanscom, Durell and Proctor, were painted on the outside.

The most pressing needs this year will be the following:—

That the policy of yard resurfacing be continued so that the school yards may be kept sanitary and free from dust.

That the policy of painting as many school buildings as possible during the year be continued.

Additional windows in the Edgerly School.

Electric lighting in all buildings with one side lighted rooms.

Outside enclosed fire escapes on the Edgerly, Morse and Highland School buildings. These buildings are three stories high and the old style type of construction with very little distance between stairways.

New heating and ventilating plant in the Morse School, doing away with the present seven furnaces which are in bad condition.

New floors should be installed in both the Edgerly and Highland School buildings.

Installing direct steam coils thermostatically controlled in the new wing of the Brown School, also the Glines and Pope schools and the High School Annex. This would mean a great saving of coal and would eventually pay for itself.

Extending the heat control system in the High School to the remainder of the building.

The third story of the Pope School to be fitted up for a hall.

Installing motors and doing away with the present engines used to run the ventilating fans at the Bell and Prescott School buildings as these engines are in bad shape and would cost as much to be repaired as new motors.

Removing the partitions between the fire rooms and coal bins in the Bingham, Durell, Morse and Highland School buildings and replacing same with an eight-inch brick wall.

Continuation of the policy of installing sprinkler systems, doing as many buildings as possible during the coming year.

Fire Department Buildings.

There has been considerable work done and many improvements made in the several fire department buildings.

The Central Fire Station has been further renovated on the first floor by the installation of permanent partitions between the apparatus rooms and what was formerly the horse stalls, thus providing an excellent shop for the repair of all motor apparatus.

A new toilet having modern sanitary accommodations is being installed in Engine Two House, and other general repairs are being made.

The increased cost of fuel curtailed a great number of the needed repairs during the past year but much necessary work was accomplished.

The most pressing needs for this year will be the following:—

The pushing to completion of the new sanitary accommodations at Engine Two House.

Repairs to Engine Six House.

Painting interior of Hose Five House.

I urgently recommend something being done to Engine Four House. This building is in such bad shape that it does not seem wise to spend any money on repairs and as it is a well located building on a good lot of land, I heartily recommend it being torn down and a modern building erected on this site. There is much material in the present building which could be used in the new.

Municipal Buildings.

The municipal buildings, consisting of City Hall and City Hall Annex, are in fair condition generally.

It will be necessary, however, to paint the exterior of City Hall as the metal work is commencing to deteriorate.

Considerable new fittings and furniture have been requested by the various departments, and new sanitary accommodations are needed in City Hall Annex.

During the past year the entrance porch, balustrade and concrete steps and platform were thoroughly repaired and painted. The ceiling and walls of the two front staircases to the second story were repaired and painted and the walls and ceiling of the Board of Aldermen's Chamber were painted.

Libraries.

The new library building in East Somerville was opened in April, 1918, thus completing four libraries well located for the accommodation of our citizens.

Very few repairs were necessary at the Union Square

Branch Library the past year as the building was remodelled in 1917.

At the Central Library the office and Librarian's room were repainted and much of the furniture refinished.

At the West Somerville Branch Library the roof needs repairing and some of the interior finish needs attention.

Water, Highway and Refuse Buildings.

The Water buildings needed very little attention during the past year due to the fact that they were put in very fair repair in 1917.

In the Spring the painting of the Highway Building was completed and much attention was given to the repair of the horse stalls in both the Highway and Refuse buildings.

Hospital Buildings.

Extensive painting and other general repairs were made this last year in these buildings, but there is still much to be done in order to keep these buildings in proper sanitary condition.

The insurance was renewed for three years.

City Home Buildings.

In addition to the general repairs to the buildings a new addition to the garage building was completed and a large amount of concrete work done around the piggery.

The insurance was renewed for three years on all the buildings.

Request has been made by the Overseers of the Poor for considerable work to be done this coming year.

Police Buildings.

During the past year a large portion of the interior of the Station House was repaired and painted, an addition to the garage building constructed as well as many general repairs made.

I urgently recommend the extension of the steam supply main from the Station House boiler to the stable and garage in the rear. This is needed to properly heat these buildings as the heater in the stable is beyond repair and there is no heat in the garage.

Bathhouse.

The public Bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual last year, although it did not show a very large attendance. This was due partially to the cool weather but largely to the war as a great many of our patrons were in the army.

The principal improvements made last year were all on the outside, on the grounds, and consisted of a concrete walk to the entrances, the loaming and grading of the land in front and the building of about 530 feet of six-foot iron fence at the request of the Metropolitan Park Commissioners, who shared in the expense.

The further improvement of the bathing beach was not made as I desired owing to the impossibility of procuring sand at reasonable prices. However, one large load of sand was procured which came from Europe, being used as ballast on a returning transport.

Beside the enlargement and resanding of the beach this coming year the bank will need bulkheading to keep it from being washed out each winter by the heavy tides.

Park Buildings.

The attendance at the Lincoln Park showers fell somewhat short during the year for the same reason as at the Bathhouse but the buildings were opened and maintained on the same schedule as usual.

This coming year the two buildings located in Broadway Park will need considerable attention in the way of repairs as the wooden building leaks badly and the plumbing in the concrete building needs renovating.

I heartily recommend the erection of a permanent bandstand in Broadway Park as it is fair to assume that we will continue to have more band concerts here in the future than in the past, and there is no permanent place to have such affairs in the city.

In General.

The Commissioner of Public Buildings has had the co-operation of all branches of the City Government, including His Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

GEORGE L. DUDLEY,
Commissioner of Public Buildings.

REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS

OFFICE OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS,
Somerville, Mass., January 1, 1919.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen:—I most respectfully submit my tenth annual
report as Commissioner of Electric Lines and Lights for the
year ending December 31, 1918.

Inspection of Wiring in Buildings.

Electrical installations have somewhat decreased this
year owing to war conditions, but the necessity of strict in-
spection has been as great as in previous years owing to new
men engaging in the electrical construction business who need
careful supervision.

Inspections are followed up very closely and no work is
approved unless installed in a manner to provide against
fire and injury to persons.

On July 1, 1918, an ordinance was enacted which provides
for a permit to be obtained before any interior electrical work
can be done.

This has proven a great help to the inspection department
as it provides an additional check on wiremen who do work
and have heretofore failed to notify the department of such
work.

The connecting of unapproved wiring to existing installa-
tions by inexperienced persons without proper notification or
inspection still continues and when discovered notice is sent
to the owner of the building to have same corrected under
liability of having meter removed. Ample time is allowed
for such corrections, and the request of the Inspector is gen-
erally complied with.

I again call attention to the unwise practice of connecting
flat-irons, cooking utensils, vacuum cleaners and like apparatus
to lamp sockets which are not designed to carry the amount of
current necessary to operate these devices.

The result is, in a great many cases, the burning out of
sockets and blowing of protective fuses which are sometimes

replaced with fuses larger than allowed to protect the lighting circuit.

This is a dangerous practice and is liable to cause a fire.

Separate circuits should be run to supply any of the above named appliances and should be properly fused to protect the same.

No work should be accepted until the Inspector has been notified and his approval obtained.

Number of notifications of new work	794
Number of inspections of new work	794
Number of re-inspections of new work	1,167
Number of inspections of old work	175
Number of defective installations of old work	10
Number of defective installations remedied	10
Number of re-inspections of old work	10
<hr/>	
Total number of inspections	2,166
Number of permits issued to the Edison Electric Illuminating Company for installing meters, lamps, etc.	1,345
Number of permits issued to the Malden Electric Company for installing meters	4

Fire Alarm System.

The second year of operation of the new central fire alarm office has proved its worth and has given complete satisfaction.

One of the advantages of this central office is the ability to receive two or more alarms at the same time.

As many as four different alarms have been received practically simultaneously and have been transmitted to the fire stations one after the other without confusion. 277 bell alarms were received and transmitted during the year.

This office is considered a "show office" and has been visited by many fire alarm and fire department officials who have expressed their approval of the system.

The office equipment consists of the following:—

- 2— 6 circuit operating boards.
- 1— 5 circuit tapper board.
- 1— 5 circuit gong board.
- 2—16 circuit storage battery charging boards.
- 1—32 circuit protector board.
- 1—12 circuit automatic repeater.
- 1— 1 dial, 4 number manual transmitter.
- 2— 5 circuit punching registers.
- 13 punching registers and take up reels.
- 2 automatic time and date stamps.
- 1 master clock.
- 940 cells storage battery.
- 5—10 foot, 4 shelf battery racks.
- 4 metropolitan tappers and 2 gongs.

The central telephone desk with its four trunk lines and connections to each individual fire station enables the operator to receive telephone notifications of fire and immediately notify the station nearest to the call, thus saving considerable time in getting a piece of fire apparatus to the fire.

The apparatus outside of the central office consists of the following:

- 131 signal boxes.
- 8 tower strikers.
- 45 gongs.
- 10 punching registers.
- 20 tappers.
- 1 automatic steam whistle.
- 9 private telephones.
- About 58½ miles of overhead wires.
- About 78 miles of underground wires.

There have been run 11,800 feet of new overhead wire.

No underground wires were installed last year owing to lack of appropriation and the difficulty of securing material.

One new box has been added during the year:—

Box 722—North Street cor. Gordon Street.

Police Signal System.

The police signal system has been given the usual constant attention and is giving excellent satisfaction.

Boxes have been thoroughly tested and all found to be in perfect working order.

The system consists of the following:—

- 1—4 circuit police desk.
- 59 street signal boxes.
- 4 special boxes.
- About 19½ miles of overhead wire.
- About 13 miles of underground wire.

Two new boxes have been added during the year:—

Box 425—Bolton Street.

Box 125—Chester Street cor. Orchard Street.

Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years.

A number of defective poles have been replaced by companies owning the same.

New poles have been placed in locations granted for the purpose of supplying light and telephone service, and abandoned poles have been removed.

	New poles	Re- placed	Re- moved	Re- set
New England Telephone & Telegraph Company .	2	5	1	5
Edison Electric Illuminating Company	27	44	....	14
Permits given to the New England Telephone & Telegraph Company for attachments to the Edison Company's poles	140			
Permits given to the Edison Electric Illuminating Company for attachments to the Telephone Company's poles	10			

Street Lighting.

The matter of street lighting has had the same attention as in previous years and additional lights have been placed in various parts of the city.

More lights are required in the western part of the city as some new streets are inadequately lighted.

Recommendations.

I respectfully recommend that:

Sufficient appropriations be made so that the placing of city wires underground can be continued.

An assistant inspector be employed so as to be able to thoroughly cover all old installations of electrical wiring in the city.

Conclusion.

I wish to thank His Honor, the Mayor, the members of the Board of Aldermen, and the several departments for the many courtesies received.

Respectfully yours,

WALTER I. FULLER,
Commissioner of Electric Lines and Lights.

REPORT OF SANITARY DEPARTMENT

City Hall, Somerville,
March 13, 1919.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen:

I have the honor to submit to you the report of the Sanitary Department for the year 1918.

COLLECTIONS OF ASHES AND PAPER.

	Ashes (Cubic Yards)	Paper (Cubic Yards)
January	10,962	2,600
February	10,000	2,300
March	11,560	2,600
April	10,777	2,500
May	11,565	2,740
June	8,830	3,600
July	6,694	2,700
August	6,523	2,575
September	6,505	3,020
October	7,982	2,760
November	7,647	3,060
December	10,385	2,600
Totals	109,430	33,055

During the year the Sanitary Department paid to the Highway Department \$4,291.77 for the use of teams. Collections of garbage amounted to 2,000 cords, all of which was disposed of to farmers at the department yard.

Receipts.

Sale of Garbage	\$13,804 80
Use of incinerator	1,380 00
Total	\$15,184 80

The equipment and its valuation follows:

Horses	\$9,000 00
Vehicles	13,675 00
Harnesses, blankets, etc.	2,665 00
Stable equipment, etc.	300 00
Fittings in blacksmith shop	75 00
	<u>\$25,715 00</u>

I wish to call your attention to the condition of the dumping privileges in the city. There is no public dump within the city limits and the only dump now in use by this department is located on Mystic avenue at the foot of Temple street. This dump is on private land and the city is paying six hundred dollars per year for the privilege of dumping there and it is fast filling up. All of the collections of rubbish are dumped on private land. Some provision should be made in the near future to care for the disposal of refuse.

In conclusion I wish to thank the members of the City Government for their co-operation the past year and the employees of the Sanitary Department for their earnest and conscientious work.

Respectfully submitted,

EDGAR T. MAYHEW,

Supt. of Sanitary Department.

SOMERVILLE WATER WORKS

SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Location: Somerville City Hall (near centre of the city) is $2\frac{3}{4}$ miles northerly from State House in Boston.

Greatest extent of the City north and south about 4.2 miles.

Greatest extent of the City east and west about 2.1 miles.

Elevation Highland avenue at City Hall 105 feet above mean low water.

Lowest building elevation in the city 13 feet.

Highest building elevation in the city 145 feet.

Area of city, including land and water, about 4.22 square miles.

Land, 2,461.50 acres; water and marsh, 238.50 acres.

Population 1915, census, 86,854.

Present population, estimated, 91,000.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.

Construction commenced in 1868.

Source of supply: Metropolitan system, taking water of the Nashua river at Clinton, Mass.

Range of pressure on street mains:

Low service 35 to 65 pounds.

High service 45 to 100 pounds.

Mayor.

HON. CHARLES W. ELDRIDGE.

Water Commissioner.

FRANK E. MERRILL.

Office of the Water Department.

Room 10, City Hall.

Department Buildings and Yard.

Cedar street, near Broadway.

REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER,
January, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

I present herewith my report for the year ending December 31, 1918, this being the forty-fifth annual report of the water department and my nineteenth as water commissioner:—

Revenue and Expenditures.

Water bills have been issued as follows:—

"Annual" water charges, amounting to	\$44,527 32
"Additional" water charges, amounting to	2,076 10
"Metered" water charges, amounting to	221,936 26
	<hr/>
	\$268,539 68

	Annual and Additional	Metered	
Abatements and refunds on above charges	\$2,006 19	\$2,269 16	
		<hr/>	4,275 35
Income from sale of water			\$264,264 33
Receipts; water service assessments		\$1,040 27	
Receipts; labor and materials sold:—			
Miscellaneous accounts		3,972 37	
		<hr/>	5,012 64
Total income of water works			\$269,276 97

This amount was used as follows:—

For water works purposes:—

Water works maintenance	\$52,039 18	
Water works extension	5,821 79	
Miscellaneous accounts	3,972 37	
	<hr/>	\$61,833 34
Interest on water loan bonds		440 00
Maturing water loan bonds		5,000 00
Metropolitan water works assessment		125,358 55
Maintenance water works buildings		1,154 63
		<hr/>
		\$193,786 52

For other municipal purposes:—

Surplus	75,490 45
	<hr/>
	\$269,276 97

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.

WATER MAINTENANCE ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen		\$58,400 00
Department accounts		681 99
Materials furnished for extension of the water works		4,376 37
Amount expended for labor and materials for operation, maintenance, and renewal of the water works	\$52,039 18	
Amount expended for materials used in extension of the water works	4,376 37	
Miscellaneous accounts	3,972 37	
Labor and materials furnished municipal departments	681 99	
Unexpended balance	2,388 45	
	<hr/>	<hr/>
	\$63,458 36	\$63,458 36

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen		\$10,000 00
Department accounts		92 33
Labor and materials furnished municipal departments	\$92 33	
Amount expended for labor and materials used in extension of the water works	5,821 79	
Transferred by board of aldermen	3,874 97	
Unexpended balance	303 24	
	<hr/>	<hr/>
	\$10,092 33	\$10,092 33

Cost of Water Works.

The total cost of water works on December 31, 1917 as represented by the expenditures from appropriations for water works extension was	\$1,061,188 59
Expended during the year 1918, on extension account	5,821 79
	<hr/>
Total expenditures, December 31, 1918	\$1,067,010 38

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$1,111,000, leaving the water debt on December 31, 1918, \$6,000.

The outstanding bonds mature as follows:—

Year	Amount
1919	\$4,000
1920	2,000

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1918, inclusive, is shown in the following table:—

Total water income, years 1898 to 1918, inclusive . . . \$4,888,988 57
Distribution:—

Water Works Account.

Water Works Construction, Renewal,		
Maintenance and Operation	\$1,219,578 31	
Water bonds	268,000 00	
Interest	86,255 00	
Metropolitan Water Assessments	1,888,211 26	
Maintenance Water Works buildings	3,997 68	
	<hr/>	\$3,466,042 25

Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account		\$1,422,946 32
		<hr/>
		\$4,888,988 57

Water Distribution System — Construction.

STREET MAINS.

Approximate number of feet of street mains in the city, January 1, 1918, (including hydrant branches and blow-offs)				540,639
Feet of street mains laid in 1918	.	.	477	
Feet of hydrant branches laid in 1918	.	.	36	
Feet of blow-off branches laid in 1918	.	.	30	
				<hr/>
Total feet of pipe laid	.	.	543	
Feet of street mains removed and replaced	.	.	85	
				<hr/>
Net increase in feet of pipe	.	.	.	458
				<hr/>
Total approximate feet of pipe in the city	.	.	.	541,088
Total pipe mileage, approximately	.	.	.	102.48

The sizes and lengths of pipe laid and removed are as follows:—

Size	Feet Laid	Feet Removed	Size	Feet Laid	Feet Removed
2"	85	85	12"	258	0
4"	30	0	16"	114	0
6"	56	0			0

The street mains constructed and replaced during the year are as follows:—

		Size of Pipe	Feet Laid	Feet Removed	Size Removed
Constructed:—					
Alewife Brook Parkway		16"	114		
" " "		12"	20		
Gordon Street		12"	7		
High Street		12"	202		
Mystic Avenue		12"	36		
New Hampshire Avenue		6"	7		
Sycamore Street		6"	6		
Replaced:—					
Warren Street		2"	85	85	2"
Hydrant branches and blow-off pipes			66		
			<hr/>	<hr/>	
			543	85	

Hydrants, Gates, Etc.

Number of fire hydrants in city January 1, 1918		1,171	
Number set during year	22		
Number removed during the year	18		
	<hr/>		
Net increase in number of hydrants		4	
		<hr/>	
Total number of public fire hydrants ...			1,175
Number of private fire hydrants, January 1, 1918		64	
Number set by private companies during the year		0	
		<hr/>	
Total number of private fire hydrants receiving their supply from the city mains			64
Number of gates in city, January 1, 1918....		1,801	
Number set during the year for streets.....	1		
Number of section gates set.....	2		
Number set on hydrant branches.....	23		
Number set on blow-off branches.....	0		
Number set on car-sprinkler connections.....	0		
	<hr/>	26	
Number of street gates removed	0		
Number of section gates removed	0		
	<hr/>	0	
Net increase in number of gates.....		26	
Total number of gates in city.....			1,827
Number of check-valves in city January 1, 1918		8	
Number of blow-offs in city January 1, 1918		177	
Number added during the year.....		1	
		<hr/>	
Total number of blow-offs.....			178
Number of waterposts in city January 1, 1918		79	
Number removed during the year		0	
		<hr/>	
Total number of waterposts.....			79
Number of drinking fountains in city January 1, 1918		9	
Number removed during the year.....		1	
		<hr/>	
Total number of drinking fountains.....			8
Number of car-sprinkler connections in city January 1, 1918		17	
Number installed during the year		0	
		<hr/>	
Total number of car-sprinkler connections in city			17

Water Services.

Number of services in city January 1, 1918, (approximately)		13,509
Number laid during the year.....	23	
Number permanently discontinued	<u>.18</u>	
Net increase in services.....		<u>5</u>
Total number of water services in city		13,514
Amount received for services laid in 1918....		\$3,494.53
Number feet service pipe in city January 1, 1918		466,567
Number feet laid during the year.....	816	
Number feet discontinued	<u>1,021</u>	
Decrease in feet of service pipe.....		<u>205</u>
Total feet service pipe in city (approx- imately)		466,362
Total service mileage (approximately)		88.33

Size, number and length of service pipes laid in 1918:—

16— $\frac{3}{4}$ "—543' 1—1"—72' 3—2"—91' 2—4"—82' 1—6"—28'

Number of fire services installed during 1918.....		3
Locations	No.	Size
James' Soap Factory—Columbia Street.....	1	6"
New England Bakery Co.—Joy Street.....	<u>2</u>	<u>4"</u>

Water Meters

Number of water meters in city, January 1, 1918.....	10,024
Number installed during the year, new.....	121
Number reset	<u>121</u>
	242
Number removed on account of permanent or tem- porary discontinuance of water and for substitu- tion of other meters	<u>153</u>
Net increase in number of operating meters	89
Number of motor registers in service	3
Total number of meters and registers	10,116
Per cent. of all services metered	74.86

Operating Meters December 31, 1918.

KIND.	SIZE.								Total.
	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	3"	4"	6"	
Nash	175								175
Empire	4								4
Crown	4	2	3	3	2	2			16
Gem							1		1
Hersey			5	1		2			8
Hersey Disc	253	22	9	1	4				289
Torrent								1	1
Trident	506	42	23	6	6				583
Trident Crest					2	2	3		7
Trident Comp.					8	2	2		12
Union	14	13	6	1	4				38
Union Special		14	2	2					18
Columbia	44								44
King	658								658
Lambert	4,147	149	27	1					4,324
Worthington Disc	3,867	32	6	4					3,909
Worthington Turbine								2	2
Keystone	24								24
Totals	9,696	274	81	19	26	8	6	3	10,113
Motor and ele- vator registers									3
									10,116

The meters installed in 1918 were classed as follows:—

Applications of property owners	52
New services	39
General installation	30
Reset	121
Total	242

Meters were removed for the following causes:—

Vacancies and temporary non-use of water	89
Services permanently discontinued	8
Replaced by other meters	56
Total	153
Motor registers discontinued	1

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928:—

Year	Average installation required on old services	Meters set on old services	Set in excess of requirements	Total excess	Meters set on new services
1908	411	755	344	344	147
1909	411	637	226	570	201
1910	411	501	90	660	169
1911	411	528	117	777	200

1912	411	423	12	789	236
1913	411	432	21	810	255
1914	411	422	11	821	231
1915	411	439	28	849	217
1916	411	434	23	872	203
1917	411	163	248 (less) *	624	154
1918	411	82	329 (less) *	295	39

* On account of war-time conditions of labor and material.

The following table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption:

Year	Popu- lation	Number of Services	Number of Meters	Per Cent Metered	Per Capita Con- sump- tion
1897	58,000	9,601	.....	.....	(Est.) 88
1898	59,000	9,806	143	1.5	" 88
1899	61,000	10,053	226	2.25	" 88
1900	62,000	10,291	202	2	" 98
1901	64,000	10,520	224	2	" 88
1902	66,000	10,710	269	2.5	" 88
1903	68,000	10,854	647	6	" 98
1904	69,000	11,059	1,272	11.5	89
1905	70,000	11,279	2,092	18.5	99
1906	71,000	11,489	2,829	24.5	89
1907	72,000	11,662	3,455	29.5	90
1908	74,000	11,817	4,333	36.5	89
1909	76,000	12,018	5,155	43	84
1910	78,000	12,149	5,817	48	80
1911	79,000	12,357	6,533	53	74
1912	80,000	12,596	7,171	57	79
1913	82,000	12,827	7,856	61	72
1914	85,000	13,034	8,499	65	73
1915	87,000	13,233	9,155	69	67
1916	90,000	13,420	9,763	72.75	69
1917	91,000	13,509	10,028	74.23	*73
1918	91,000	13,514	10,116	74.86	*80

* Winter of 1917-18 was of extraordinary severity and frost penetration was very deep so that water was allowed to run to waste to prevent its freezing. Industrial consumption was also considerably increased.

Summary of Pipes and Fixtures of the Water System December 31, 1918.

Feet of main pipe (approximately)	541,088
Feet of service pipe (approximately)	466,362
Service connections (approximately)	13,514
Public fire hydrants	1,175
Private fire hydrants	64
Gates	1,827
Check valves	8
Meters	10,113
Motor registers	3
Waterposts	79
Car-sprinkler connections	17
Blow-offs	178
Drinking fountains and troughs	8

WATER ASSESSMENTS AND CONSUMPTION.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year	Sinking Fund	Maintenance	Interest	Maturing Bonds	Total
1898.....	No division	made			\$14,250 19
1899.....	"	"			20,975 58
1900.....	"	"			28,689 24
1901.....	\$12,491 73	\$12,033 79	\$32,291 24		56,816 76
1902.....	19,014 85	12,955 64	30,427 40		62,397 89
1903.....	15,748 56	12,763 10	48,776 77		77,288 43
1904.....	16,404 42	15,393 87	54,938 64		86,736 93
1905.....	21,358 11	13,666 71	55,535 91		90,560 73
1906.....	22,345 50	17,412 51	57,402 07		97,160 08
1907.....	25,365 30	18,880 01	62,089 30		106,334 61
1908.....	24,865 73	15,221 12	68,604 23		108,691 08
1909.....	24,812 23	21,220 56	66,540 41		112,573 20
1910.....	25,018 52	18,212 28	66,825 45		110,056 25
1911.....	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912.....	24,469 82	16,111 70	68,205 16	445 46	109,232 14
1913.....	24,930 94	20,691 19	70,206 83	491 92	116,320 88
1914.....	14,190 98	22,488 71	73,138 81	180 63	109,999 13
1915.....	14,164 65	21,376 07	74,111 12	1,129 50	110,781 34
1916.....	13,249 71	21,643 98	74,058 98	1,515 62	110,468 29
1917.....	13,364 71	28,110 19	75,117 17	1,833 60	118,425 67
1918.....	14,193 89	29,185 04	79,975 44	2,004 18	125,358 55
					\$1,888,211 26

There has been credited to the city by the commonwealth as its proportion of the amounts received from entrance fees, water supplied outside the district, and water furnished to water companies the sum of \$9,056.10.

The daily consumption of water in Somerville, as recorded by the Venturi meters, operated by the Metropolitan water works, is shown below by months for the year 1918:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January	8,870,200	96	July	7,156,100	77
February	9,530,000	103	August	6,832,200	73
March	8,215,000	89	September ..	6,633,300	71
April	7,414,800	80	October	6,572,600	70
May	7,398,300	80	November ..	6,679,800	71
June	7,554,900	81	December	6,497,800	69

The consumption for the year was:—

Low-service system	2,105,921,000	gallons
High-service system	607,212,000	gallons
Total consumption	2,713,133,000	gallons
Average daily consumption	7,433,200	gallons
Average daily consumption, per capita, for Somerville	80	gallons
Average daily consumption, per capita, for Metropolitan district	105	gallons

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan Water District for the year 1918, as registered by the Metropolitan meters.

City or town	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Arlington	68	104	99	73	79	88	84	75	69	64	58	60	76
Belmont	58	86	68	58	62	66	61	62	61	53	55	56	62
Boston	137	146	124	114	115	117	117	118	117	112	109	114	120
Chelsea	92	94	79	68	70	73	77	67	67	67	66	67	74
Everett	114	126	94	79	76	75	75	75	74	71	68	70	83
Lexington	77	114	106	87	92	94	89	87	76	64	63	58	84
Malden	59	80	81	68	63	60	60	60	59	56	53	51	62
Medford	60	92	81	65	63	67	63	62	54	52	48	47	62
Melrose	70	108	80	62	67	65	61	59	58	55	56	55	66
Milton	46	61	59	49	51	56	46	39	39	41	40	39	47
Nahant	94	122	138	89	142	236	261	276	187	124	68	51	149
Quincy	88	104	113	101	101	101	106	109	103	105	112	112	105
Revere	83	101	75	60	64	66	70	73	61	54	52	53	67
Somerville	96	103	89	80	80	81	77	73	71	70	71	69	80
Stoneham	87	151	128	101	72	66	65	61	58	56	59	58	80
Swampscott	63	87	73	88	73	87	88	91	76	71	64	54	76
Watertown	108	137	126	108	127	131	138	147	137	131	154	134	131
Winthrop	54	96	82	68	67	66	74	72	56	49	49	47	65
Met. Dist.	118	130	111	100	101	103	103	103	100	96	95	97	105

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1918:—

City or town	Gallons		Per Cent.
	Total per Day	Per Capita per Day	
Milton	434,500	47	100
Malden	3,254,700	62	97.29
Medford	2,161,900	62	100
Belmont	577,900	62	100
Winthrop	941,900	65	100
Melrose	1,180,600	66	100
Revere	1,975,500	67	76.98
Chelsea	3,501,200	74	99.81
Arlington	1,290,300	76	100
Swampscott	606,100	76	100
Somerville	7,433,200	80	74.86
Stoneham	617,700	80	99.52
Everett	3,365,800	83	63.06
Lexington	493,700	84	100
Quincy	4,621,700	105	90.46
Boston	94,634,000	120	59.92
Watertown	2,434,500	131	100
Nahant	228,200	149	75.58
Total District	129,753,400	105	72.47

CONSTRUCTION — MAINTENANCE — OPERATION.

As a result of war conditions and regulations but very little construction work has been done during the year, but the department has been busily engaged, nevertheless, on the general upkeep of the system and in overcoming damage wrought by the freezeup of last winter.

The winter of 1917-18 will go down in the annals of water-

works practice as the coldest on record and one that put the efficiency of our department to the test in maintaining a supply of water throughout the trying period of many weeks when the frost penetration had reached to and below the grade of the water mains and service pipes.

The men of the department worked heroically day and night and great credit is due them for their willing and persistent efforts to relieve those who were sorely inconvenienced by the freezing of the water supply to their houses.

Thawing devices using hot water, steam and electricity were put into service and the situation was at length brought under control with a record of about 6 per cent. of the city's meters and 4 per cent. of the water services frozen at some time during the months of January and February; also, one 10" main, one 6" main and two 2" service mains were frozen, all at dead ends, and were successfully thawed by electricity; the fire hydrant system also suffered severely but was maintained with practically no loss of service at time of need.

The electric thawing device used consisted of a 50 k. w. transformer, taking current from the Edison system 2200 volt primary wires and delivering to the water pipes a current of varying amperage controlled by a water rheostat and conveyed by a heavy cable grounded to a fire hydrant on one side and clamped to the house service on the other, thus completing the electrical circuit. The apparatus was carried about the city on a heavy wagon drawn by a pair of horses and was set up at various points so that one connection with the primary wires would reach as many frozen services as possible, in some instances as many as eight being thus reached through cable lines several hundred feet in length. One hundred sixty-nine services were thawed by this method in a period of twelve working days, between February 13th and 26th, the lowest day's results being eight and the highest nineteen.

About a dozen others were tried but the desired results failed, probably on account of some poor metallic connection in the pipe line which obstructed the flow of the current and failed to heat the pipes although evidently forming an arc which in some instances was sufficiently intense to melt the brass fittings and led to the necessity subsequently of digging down to and repairing the connections.

On the whole the operation of the device was very satisfactory, being especially serviceable on such pipes as were too small or crooked to get an ordinary hot-water thawing tube through. It is worthy of record also that in the hands of our expert operator there was no difficulty in thawing cement-lined service pipes which we had been led to believe, from results in other places, were from the nature of their construction beyond the range of this electrical method of thawing.

In May a new 20" connection with the Metropolitan system was installed by the Metropolitan Water and Sewerage Board at a point on Alewife Brook Parkway near Capen Street, and was equipped with a 6" Hersey Detector meter having a 3" by-pass. In June this installation was connected by our local department with the 12" main in Gordon Street and the low-service water from the new supply was turned into this street in place of the high-service which had previously been supplied, thus transferring 14 houses containing 28 tenements to the low-service system.

In October similar transfer to the low-service system was made as follows:

Street	Houses Tenements	
Alewife Brook Parkway	3	3
Bailey St.	10	20
Chetwynd Road, from Hillside Road to West Adams St.	2	4
College Hill Road	15	30
Conwell Avenue, from North St., to easterly line of Hillsdale Road	31	87
High St.,	5	10
Hillsdale Road	13	26
North St., from southerly line of Raymond Ave., to Medford city line	40	76
Raymond Avenue	39	78
West Adams St.	29	58
West Quincy St.	10	20

The water pressure in the district affected by this change has been reduced about thirty pounds, but is still ample for domestic and fire service. The transfer should relieve to an appreciable extent the strain upon our overtaxed high-service system and, as the low-service is a gravity supply, there should result a fuel saving equivalent to that needed heretofore in pumping into the high-service approximately 100,000 gallons of water daily.

Labor.

Wages of common laborers were advanced on April 1st from \$2.75 to \$3.00 a day, and of skilled laborers from \$2.90 to \$3.25 a day. In October the mayor further advanced the wages of common laborers to \$3.25 a day and of skilled laborers to \$3.35 a day.

Laborers are not paid for holidays but are granted Saturday afternoons off throughout the year without loss of pay; they are also given a vacation of two weeks with pay. They are paid time-and-a-half if called out on emergency work nights, holidays and Sundays; if the work is continuous, regular pay is given.

Pension Roll.

Michael E. Brady, an efficient and honored employee of the department for more than twenty-five years, was added to

the list of pensioners in March at rate of \$7.49 a week. It is with regret that his death is also to be recorded this year, the end of his earthly life having come in November.

Richard Whelan, an old-time and faithful servant of the city, and a pensioner since May, 1913, also passed away this year in the month of April.

There are now on the pension roll the names of Andrew McCaffrey, John H. Keefe and Thomas Fitzpatrick.

Financial.

The year has been a very successful one financially and notwithstanding extraordinary and unexpected expenses in the early part of the year our books closed showing a transfer by the Board of Aldermen from our extension appropriation of \$3,874.97, unexpended balances in our department, appropriation accounts amounting to \$2,691.69 and a general surplus of \$75,490.45 after paying all indebtedness chargeable for the year to the water department or connected with its operations.

The policy of paying every bill contracted up to the closing of the last payroll of the year in December has been continued and in pursuance thereof all outstanding accounts against the department have been settled.

Emergency Pump.

No substantial interest seems thus far to have developed in the matter of providing an emergency pump for the high-service system and its annual recommendation may as well now be dropped from these pages where it has appeared for the last four years.

In this swan song the writer desires, however, to once more record his belief that the subject of securing to the higher districts of this city, a city which is said to be the most densely populated of any in the United States, an ample and dependable water supply and suitable fire protection at all times is one of sufficient importance to warrant your earnest consideration.

Tabulation.

The accompanying table gives further details of the work performed during the year in the main distribution system and is made a part of this report.

Respectfully submitted,

FRANK E. MERRILL,

Water Commissioner

Street Mains, Gates, Hydrants, Etc., Laid, Set and Removed in 1918.

STREET.	DESCRIPTION.	PIPE.			GATES.			HY-DRANTS.			BLOW-OFFS.		
		LAID.	REMOVED.		SET.	Size.	Kind.	RE- MOV'D.	Size.	Kind.	SET.	Size.	RE- MOV'D.
			Size.	Feet.									
Adrian street	Main gate: 13 feet 4 inches west from east line of Adrian street, on south line of Joseph street.												
Alewife Brook pkwy	Street main: From connection with Metropolitan Water works 16" main pipe at point 77 feet north from north line of Gordon street, to point 60 feet south from north line of Gordon street.	16" 12"	114 20		6" S								
Arlington street	Section gate: On south line of Gordon street, 10 feet west from east line of Alewife Brook parkway.				12" R								
Buckingham street	Hydrant: 36 feet east from Hathorn street.												
	Gate on hydrant branch: 36 feet east from Hathorn street, 4 feet out from hydrant.				6" R								
	Hydrant: On south line of Dimick street.				6" R								
	Gate on hydrant branch: On south line of Dimick street, 4 feet out from hydrant.				6" R								
Calvin street	Hydrant: 37 feet south from Dimick street.												
	Gate on hydrant branch: 37 feet south from Dimick street, 4 feet out from hydrant.				6" R								
Columbus avenue	Hydrant: 151 feet east from Bonner avenue.												
	Gate on hydrant branch: 151 feet east from Bonner avenue, 4 feet out from hydrant.				6" S								
Conlon ct (foot of)	Street main: Set 6" tee on main pipe 6 feet 4 inches east from east or dead end of Conlon court.												
Cross street	Hydrant: 13 feet south from Auburn avenue.												
	Gate on hydrant branch: 13 feet south from Auburn avenue, 3 feet out from hydrant.				6" S								
Cummings street	Hydrant: 24 feet west from west line of Middlesex avenue. (Completion of 1917 work.)	6"	4										
Curtis street	Hydrant: 64 feet south from south line of Powder House boulevard.												
	Gate on hydrant branch: 64 feet south from south line of Powder House boulevard, 3½ feet out from hydrant.				6" R								
Electric avenue	Hydrant: 170 feet east from Packard avenue connected with tee that was set when main was laid in Electric avenue.	6"	7										
	Gate on hydrant branch: 170 feet east from Packard avenue, 4 feet out from hydrant.				6" S								

Fairmount avenue	Hydrant: 280 feet west from Curtis street. Gate on hydrant branch: 280 feet west from Curtis street, 4 feet out from hydrant.				6" Co. 6" H C
Gordon street	Street main: From connection with 16" main pipe in Alewife Brook parkway to connection with 12" pipe in Gordon street. Blow-off: 5 feet east from east line of Alewife Brook parkway, 16 feet north from south line of Gordon street. (Completion of work commenced in 1917.)	12" 6½			
Hathorn street	Hydrant: 145 feet south from Broadway. Gate on hydrant branch: 145 feet south from Broadway, 4 feet out from hydrant.	4" 30			4" 1 6" M 6" H C
High street	Replaced street main: From connection with 12" main in High street at point 61 feet west from west line of North street, to point 264 feet west from west line of North street. Hydrant: 69 feet west from North street. Gate on hydrant branch: 69 feet west from North street, 4 feet out from hydrant.	12" 202 6" 7	202		6" Co. 6" M 6" M
Holland street Jay street	Hydrant: 5 feet from south line of Jay street. Hydrant: 14 feet west from Holland street, low service. Gate on hydrant branch: 14 feet west from west line of Holland street, 4 feet out from hydrant.				6" R 6" R 6" S
Josephine avenue	Hydrant: 213 feet south from Broadway. Gate on hydrant branch: 213 feet south from Broadway, 4 feet out from hydrant.				6" Co. 6" H C
Kenneson road	Gate on hydrant branch: 121 feet south from Broadway, 3 feet out from hydrant.				6" Co. 6" P C
Marion street	Hydrant: 40 feet east from Dimick street. Gate on hydrant branch: 40 feet east from Dimick street, 2 feet out from hydrant.				6" Co. 6" M
Medford street	Hydrant: 70 feet north from Maple street. Gate on hydrant branch: 70 feet north from Maple street, 4 feet out from hydrant.				6" S
Mystic avenue	Street main: From point 1 foot east from west line of New Hampshire avenue, to point 2 feet west from east line of New Hampshire avenue.	12" 36			
New Hampshire av	Hydrant: 12 feet west from west line of Fellsway West. Hydrant: On west line of Fellsway West, 9½ feet north from south line of Mystic avenue.				6" M 6" Ch.
North street	Gate on hydrant branch: 9½ feet north from south line of Mystic avenue, 4 feet west from hydrant. Street main: From connection with main pipe in Mystic avenue, to connection with main in New Hampshire avenue. Hydrant: 572 feet from north line of Bailey street.	6" 7			6" R 6" H C

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1918.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

General Statistics.

Population, census 1915, 86,854; present, estimated 91,000.

Date of construction: Commenced in 1868.

By whom owned: City of Somerville.

Source of supply: Metropolitan water system.

Mode of supply: Water is delivered into the city's mains, under both high and low pressures, by the Metropolitan Water Works.

Statistics of Consumption of Water.

Estimated total population at date, 91,000.

Estimated population on lines of pipe, 91,000.

Estimated population supplied, 91,000.

Total consumption for the year, 2,713,133,000 gallons.

Average daily consumption, 7,433,200 gallons.

Gallons per day to each inhabitant, 80.

Statistics Relating to Distribution System, 1918.

MAINS.

Kind of pipe, cast iron.

Sizes, from 4-inch and under to 20-inch.

Laid 543 feet; discontinued 85 feet; net extension, 458 feet.

Total now in use, 102.48 miles.

Number of leaks per mile, 0.24.

Number of hydrants added during year (public, 4; private, 0), 4.

Number of hydrants (public and private) now in use, 1,239.

Number of stop gates added during year, 26.

Number of stop gates now in use, 1,827.

Number of blow-offs, 178.

Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES.

Kind of pipe: Lead; wrought iron — lead-lined; wrought iron — cement-lined; cast iron.

Sizes, one-half to eight inches.

Extended 816 feet; discontinued 1,021 feet.

Total now in use, 88.33 miles.

Number of service taps added, 23; discontinued, 18; net increase, 5.

Number now in use, 13,514.

Number of meters added, 242; meters and motor registers discontinued, 154; net increase, 88.

Number now in use, 10,116.

Percentage of services metered, 74.86.

Percentage of receipts from metered water, 83.

Number of motors and elevator registers added, 0; removed, 1.

Number now in use, 3 (included in number of meters).

FINANCIAL STATISTICS.

REVENUE.

From Water Rates:—	
Fixture rates	\$44,597 23
Meter rates	219,667 10
	<hr/>
Total from consumers	\$264,264 33
From other sources:—	
Water service assessments	1,040 27
Labor and materials	3,972 37

EXPENDITURES.

Water	Works Maintenance:—	
	Operation (management, repairs and renewals) ...	\$52,039 18
	Special:—	
	Miscellaneous accounts ..	3,972 37
		<hr/>
	Total maintenance	\$56,011 55
	Interest on bonds	440 00
	Payment on bonds	5,000 00
	Water Works Buildings	1,154 63
Water	Works Construction:—	
	Mains	\$3,976 69
	Services	958 50
	Meters	886 60
		<hr/>
	Total construction	\$5,821 79
	Unclassified expenses:—	
	Metropolitan water assessment	125,358 55
	Balance:—	
	Ordinary	\$75,490 45
		<hr/>
	Total balance	75,490 45
		<hr/>
	Total	\$269,276 97

Total	<hr/>	\$269,276 97
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Disposition of balance: applied to municipal purposes.	
Cost of works to date	\$1,067,010 38
Bonded debt at date	6,000 00
Average rate of interest, 4 per cent.	

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT

OFFICE OF CHIEF OF FIRE DEPARTMENT,
Somerville, Mass., January 22, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I have the honor of presenting to you for your consideration the annual report of the fire department for the year ending December 31, 1918:—

Alarms of Fire.

Number of bell alarms	277
Number of still alarms	431
Total alarms	708
Number in excess of 1918	83
Value of buildings at risk	\$644,825 00
Insurance on buildings	483,100 00
Damage to buildings	137,245 53
Value of contents	593,910 00
Insurance on contents	502,360 00
Damage to contents	336,474 56
Total value at risk	1,238,735 00
Total insurance	985,460 00
Total damage	473,720 09

List of Probable Causes.

Accidental	5
Automobiles and trucks	10
Bonfires	23
Carelessness with matches	9
Celluloid comb and match	1
Children playing with matches	14
Cigars, cigarettes and pipes	14
Cigarettes on awning	2
Clothing near stove	4
Combustion	4
Curtain in contact with gas	4
Defective chimney	12
Defective gas fixture	2
Drying wood in oven	3
Dump fires	6
Electric car	3
Electric wires	3
False alarms	44

Filling gasoline tank	2
Fire in Boston	2
Gasoline leaking from automobile	1
Gloves left on stove	1
Grass fires	11
Hot ashes in wooden receptacle	9
Incendiary	24
Jack-o-lantern	1
Kettle of fat	2
Kerosene lamps and stoves	11
Lighted paper thrown from window	1
Lightning	3
Oil heater	2
Smoking in bed	2
Smoke mistaken for fire	1
Smoke from tar-kettle	1
Spark from chimney	3
Spark from furnace	8
Spark from locomotive	2
Steam mistaken for fire	1
Wire in street	1
Unknown	8
Unnecessary	10

	Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 3.	Hose 5.	Hose 7.	Hose 8.	Ladder 1.	Ladder 2.	Ladder 3.	Totals.
Bell alarms responded to .	208	145	103	39	116	76	116	90	113	104	63	277
Still alarms responded to .	64	44	22	67	39	36	56	51	16	5	31	431
Miles traveled . . .	512	282½	267	108	156	254	225	238½	101½	242	94	2,480½
Feet of 2½ inch hose used .	14,450	15,400	6,300	6,100	5,900	6,100	8,750	8,850	.....	.....	.....	71,850
Feet of chemical hose used .	8,450	.....	.....	2,000	10,500	13,400	5,000	6,750	.....	.....	3,600	49,700
Feet of ladders used . .	45	.....	.....	.....	.....	96	80	48	1,254	1,160	1,367	4,050
Chemical extinguishers used .	18	18	19	3	.....	.....	27	9	15	3	7	119
Gallons of chemical used .	2,250	.....	.....	744	1,470	2,340	975	750	.....	.....	663	9,152
Times on duty at other sta- tions . . .	.....	1	1	.....	1	.....	1	1	.....	.....	.....	5
Times responded out of town	13	7	.....	31	5	2	1	12	4	.....	.....	75
Rubber covers used . .	.....	.....	.....	.....	.....	.....	1	.....	3	2	11	17

IN MEMORIAM.

JAMES R. HOPKINS

Ex-Chief

Appointed January 13, 1872.

Retired January 1, 1910.

Died November 30, 1918.

FRANCIS W. RING

Captain

Hose Co. No. 8.

Appointed October 1, 1876.

Died at fire

February 3, 1918.

Manual Force.

During the year one (1) man has died, two (2) have been retired on a pension, three (3) have resigned and one (1) discharged: Eight (8) permanent men have been appointed from the eligible list of the classified service and one (1) callman has been promoted to the permanent force under Chapter 487, Acts 1913. The force of the department now consists of eighty (80) permanent men and eleven (11) callmen, as follows:

- 1 Chief Engineer.
- 1 First Assistant Engineer.
- 1 Second Assistant Engineer.
- 7 Captains.
- 1 Master Mechanic.
- 10 Lieutenants.
- 3 Enginemen.
- 3 Assistant Enginemen.
- 53 Permanent men.
- 11 Callmen.

Apparatus.

- 1 Second size, horse drawn steam fire engine.
- 1 Third size, horse drawn steam fire engine.
- 2 Horse drawn combination chemical engine and hose wagons.
- 1 Horse drawn hose wagon.
- 1 Horse drawn combination ladder truck and chemical engine.
- 1 Horse drawn ladder truck.
- 1 Motor driven ladder truck.
- 4 Motor driven combination chemical engine and hose wagons.
- 1 Second size tractor drawn steam fire engine.
- 1 Motor driven 900 gallon pumping engine and hose wagon.
- 1 Motor driven supply and wrecking car.
- 1 Automobile for Master Mechanic.
- 1 Automobile Chief's car.
- 1 Automobile Assistant Chief's car.
- 2 Four wheel buggies for Assistant Chiefs.
- 1 Horse drawn relief hose wagon.
- 1 Horse drawn relief ladder truck.
- 4 Exercising wagons.
- 1 Supply wagon.

Horses.

There are twenty-one (21) horses in the department at the present time, at the latter part of the year two horses were purchased and two disposed of. As stated in my previous reports the horses are getting older, some of them being twenty-five or more years of age, many will have to be replaced in the near future.

Hose.

The amount of serviceable hose is 9,700 of two and one-half inch rubber lined cotton hose, and 1,650 feet of three-quarter inch chemical hose. There has been 1,300 feet of two and one-half inch hose purchased and 1,500 feet condemned. There should be, at least, 1,000 feet of new two and one-half inch and six hundred feet of three-quarter inch hose purchased the coming year.

Brief Resume.

The burning of the old wooden section of the Clarendon Hill car barns of the Boston Elevated Railway Company on April 7th caused a property loss of \$389,600.00, the greatest property damage, in this city, for the past twenty-five years; valuable assistance, in the extinguishment of this conflagration breeder, was rendered by the departments of Cambridge, Medford and Arlington.

The following table gives the losses by months:—

January	\$10,535 00
February	15,857 00
March	5,103 00
April	392,354 97
May	4,500 00
June	6,787 60
July	392 00
August	29,407 00
September	65 00
October	335 00
November	3,645 00
December	4,737 60
	<hr/>
	\$473,720 09

There have been twenty-one fires with an insurance loss exceeding \$1,000, as follows:—

January 1, 11.55 A. M. Box 19, 34 Joy street, dwelling owned and occupied by Thomas and William G. Anderson. Damage to building \$1,820, to contents \$200. Probable cause, spark from locomotive.

January 4, 12.55 A. M. Box 34, 292-294-294a-296 Broadway, stores and dwelling owned by George Hadjian; occupants, David Cohen, Abraham Slotwick and Emerson M. Junkins. Damage to building, \$3,864; damage to contents, \$1,550. Cause, careless plumber.

January 27, 2.55 P. M. Box 33, 53-55 Sycamore street, dwelling owned by William W. Fish; occupants, A. J. Cowan and James Nary. Damage to building, \$1,176; to contents, \$325. Cause, emptying gasoline from tank, vapor ignited by furnace fire.

February 2, 5.33 A. M. Box 213, 26 Summit avenue, unoccupied dwelling owned by the Sylvester Estate. Damage to building, \$5,200. Cause, incendiary.

February 3, 12.07 P. M. Box 342, 16 Bradley street, dwelling owned and occupied by D. W. Gallagher. Damage to building, \$1,300; to contents, \$300. Cause, overheated oil heater.

February 8, 9.03 A. M. Box 421, 28 Central road, dwelling owned by August Westlund; occupants, Laurence Ropes, Mary Quigley and Gustave A. Eck. Damage to building, \$2,300; to contents, \$385. Cause, hot ashes in wooden barrel.

February 15, 6.06 P. M. Box 24, 474 Columbia street, soap factory owned and occupied by Whitman & Pratt Rendering Company. Damage to building, \$2,400; to contents, \$2,300. Cause, defective wiring.

March 11, 8.58 P. M. Box 234, 34-36 Bennett street, unoccupied paint shop and store house owned by Peter F. Donnelly. Damage to building, \$1,000. Cause, incendiary.

March 23, 2-31 A. M. Box 117, 4a Franklin street, Columbia Bldg., owned by Columbia Associates. Damage to building, \$1,301. Cause, careless smoker throwing away cigar or match.

April 7, 6.30 P. M. Box 448, a general alarm was sounded for this fire at the Clarendon Hill car barns of the Boston Elevated Railway Co. Damage to building, \$88,600; to contents, \$301,000. Cause, unknown.

April 9, 4.02 P. M. Box 13, Asylum Grounds, wooden conduits owned by the Western Union Telegraph Company. Damage, \$1,300. Caused by dump fire.

May 5, 12.37 A. M. Box 324, 69 Jaques street, dwelling owned by Philip Brennan and occupied by Thomas Axon. Damage to building, \$1,025; to contents, \$200. Cause, lamp exploded.

May 16, 6.50 A. M. Box 444, 19 Cameron avenue, 3 apartment dwelling owned by J. P. Pattee; occupants, Charles S. Sinclair, W. E. Schwamb and J. C. Patterson. Damage to building, \$1,800; to contents, \$150. Cause, overheated stove too near woodwork.

June 10, 6.01 A. M. Box 35, dwelling owned by C. W. Cahalan Estate, occupied by George K. Adhended. Damage to building, \$1,151; to contents, \$139.39. Cause, overheated stove.

June 10, 11.59 P. M. Box 48, 1119-1135 Broadway, block of stores and flats owned by Jacob S. Levin, occupants Charles R. Hayward bowling alleys, Weston Bakery, Ginter Grocery Co., C. K. Ames Co., butter and eggs, and Neilson Market. Damage to building, \$1,150; to contents, \$2,210. Cause, careless smoker.

June 12, 5.50 P. M. Box 23, 10 Water street, unoccupied

stable and sheds owned by the J. P. Squire Estate. Damage to building, \$1,000. Cause, incendiary.

August 13, 11.45 A. M. Box 443, 45-47 Day street, garage and auto paint shop owned by Annie M. Kingston; occupants J. E. Balcom et al. Damage to building, \$5,000; to contents, \$20,585. Cause, carelessness in using paint remover and gasoline in paint shop.

August 15, 1.46 A. M. Box 336, 52 Adams street, dwelling owned and occupied by Frank Towle. Damage to building, \$1,375; to contents, \$250. Cause, careless use of matches.

November 23, 10.39 P. M. Box 425, 39-41 Windsor road, dwelling owned by Grovenor W. Dingwell, occupants the owner and I. B. Perkins. Damage to building, \$1,102; to contents, \$25. Cause, spark from furnace ignited old shingles in cellar.

November 30, 8-10 P. M. Box 427, 53-55 Russell street, wagon repairing, paint and blacksmith shop owned by John B. Rufer Estate; occupied by Speiler & Goldberg. Damage to building, \$1,242; to contents, \$1,040.20. Probable cause, spark from forge.

December 21, 5.34 P. M. Box 429, 68-70 Hall avenue, dwelling owned by Elmer A. Stevens, occupants William P. Liston and Robert J. Widdis. Damage to building, \$975; to contents, \$80. Cause, careless use of matches.

The sounding of false alarms and alarms for bonfires caused some portion of the department to respond 137 times or one-sixth of the total alarms for the year. This seems almost incredible and ought to be impossible. This is becoming a serious problem and something must be done to stop it; the penalty, if conviction is secured and proper punishment imposed, is sufficient to stop these criminal deeds. The taxpayers are spending a large sum of money to maintain an up-to-date fire equipment for the extinguishment of fires and the responding to unnecessary alarms, not only wears out the fine mechanical parts and entails expensive repairs, but lessens the efficiency of the department equipment.

Careless, improper and illegal use of gasoline has contributed largely to the swelling of the fire loss the past year, notably the fire at 45-47 Day street on August 13th, when an automobile painter, using gasoline and a steel brush to remove paint and varnish, started a fire which destroyed property valued more than \$30,000. Gasoline has become such an every day necessity and so universally and commonly used that the public is either ignorant of or ignores the ever present danger. The user of gasoline thinks he knows all about it, he has never had any trouble with it, never had a fire and therefore believes in fact he knows he never will; as has been well said "familiarity breeds contempt."

Hot ashes in wooden receptacles has ever been a fire menace, the basement or cellar is the place where this class of fire originates, the storeroom for rubbish, the catch-all for discards, the ceiling low and unprotected and pierced with openings for furnace or steam pipes and plumbing, a splendid means of distributing the fire, once started, throughout the building, added to these the ever present gas-meter with lead connections and you have ready to hand a serious fire to contemplate and to extinguish. An ordinance should now be created forever removing the chance for this class of fires, making it imperative that ashes shall be put in metal receptacles only; the enforcement of this ordinance can be simplified by the co-operation of the Sanitary Department in refusing to remove ashes unless put into proper and suitable metal barrels.

Recommendations.

No steps have been taken, during the year, towards the establishment of fire districts, immediate action was recommended in last year's report; if it was essential then it is as fully necessary now. Our city is reported to be a conflagration hazard by the National Board of Fire Underwriters and owing to that fact and the imposition of an additional premium, it is my estimate that the property owners of the city are paying between \$40,000 and \$50,000 more insurance annually than if this additional five cents premium were not imposed. If wind and weather conditions had been different on April 7th at the time of the Clarendon Hill car barn fire, the results might have been more serious and far reaching and an existing fire district or barrier would have been of inestimable value and service in staying the advance of the fire.

I am sensible of the increased cost of new motor apparatus, being at least 40 % higher than three years ago, but I am of the opinion that the fire apparatus market will be easier in the near future and therefore recommend an appropriation of \$12,000 or \$15,000 the coming year for the purchase of the most needful apparatus. There are at present in the department eleven pieces of motor-driven apparatus and eight horse-drawn. A comparison of figures of the expenditures upon the two equipments shows a comfortable margin in favor of the motor-driven. The total amount expended upon the motor apparatus, including the purchase of a chassis for the relief or service car, has been \$3,931.74 as against \$5,053.81 for the horse-drawn, which includes the purchase of two horses. As recommended in my previous reports, full motorization of the department equipment will not only add to the efficiency, but will materially reduce the operating expenses, furthermore motorized apparatus can be operated with one less man,

inasmuch as, upon the arrival at a fire, the driver of the machine becomes available for fire duty.

In Conclusion.

In closing I desire to express my sincere thanks to His Honor, the Mayor, and the Board of Aldermen for their consideration, confidence and support given me the past year. To the members of the department I express my appreciation of their co-operation and commend them for their efficiency and devotion to duty.

Respectfully submitted,

SEWALL M. RICH,
Chief Engineer.

REPORT OF THE CHIEF OF POLICE

January 31, 1919.

To the Honorable, the Mayor, and Board of Aldermen of the City of Somerville:—

Gentlemen:—I respectfully submit the annual report of the Somerville police department for the year ending December 31, 1918:—

Arrests.

Whole number of arrests made	1,650
With and without warrants	1,229
On summons and notification	421
	<hr/>
Males	1,536
Females	114
	<hr/>
Americans	1,071
Foreign Born	579
	<hr/>
Residents	1,107
Non-residents	543
	<hr/>
	1,650

1.—Crimes and Offenses Against the Person.

Abduction	1
Assault and battery	95
Assault and battery on police officer	3
Assault with dangerous weapon	8
Assault with intent to kill	1
Assault with intent to rob	3
Carnal abuse of female child	3
Manslaughter	4
Murder	1
Murder, witness to	1
Rape	1
Robbery	6
Threats	2
Throwing missiles	3
	<hr/>

2.—Crimes and Offenses Against Property

Breaking and entering	84
Breaking and entering, attempt	8
Breaking and entering railroad cars	17
Breaking and entering railroad cars, attempt	2
Breaking glass	10
Concealment of leased property	1
Concealing stolen property	1
Fraudulent claim for money	1
Larceny	149
Larceny, accessory to	3
Larceny, attempt	5
Larceny from person	1
Larceny in building	9
Malicious mischief	4
Receiving stolen goods and property	7
Unlawful concealment of property	1
Unlawful use of electric current	1
Trespass	63
Trespass, wilful	6

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3.—Crimes and Offenses Against Public Order, etc.

Adultery	2
Bail surrender	14
Bastardy	13
Capias	8
Carrying on a dance without a license	2
Carrying revolver without license	4
City ordinances, violation of	69
Contempt of court	3
Cruelty to animals	2
Default	9
Deserter from U. S. Army	7
Deserter from U. S. Navy	1
Desertion of family	1
Desertion of wife	3
Disorderly conduct on public conveyance	2
Disorderly house, keeping	2
Disturbing the peace	6
Disturbing a public assembly	2
Dog keeping, unlicensed	1
Drunkenness	356
Drunkenness, common	10
Escaped prisoner from lockup	1
Escaped from Industrial School for boys	2
Escaped from Lyman School	4
Escaped from Middlesex County Training School	3
False scales, in possession of	2
Filed, case brought forward	1
Fugitive from justice	2
Gaming implements, present when found	95
Gaming nuisance, keeping	2
Giving false alarm of fire	2
Giving false weight of coal	2

Giving raise weight of ice	9
Indecent exposure of person	1
Keeping a junk shop without license	1
Lewd cohabitation	3
Lewd and lascivious	1
Neglected children	13
Neglect of family	73
Obscene pictures, in possession of	1
Peddling, unlicensed	7
Perjury	1
Polygamy	1
Practicing as a veterinary, unlicensed	1
Rescue of prisoner, attempt	3
Revoke of parole from Mass. Reformatory	1
Safe keeping, attempted suicide	1
Safe keeping, demented	22
Safe keeping, feeble minded	5
Safe keeping, infirm	2
Safe keeping, insane	5
Safe keeping, revocation of sentence	1
Safe keeping, runaway children	17
Safe keeping, runaway from Lyman School	2
Selling explosives without permit	1
Selling potatoes, short weight	2
Selling sugar, short weight	2
Selling vegetables, dry measure	2
Selling vegetables, short weight	4
Straggler, U. S. Army	4
Stubbornness	17
Suspicious person	1
Unnatural act	1
Vagrants	3
Violation of cigarette laws	3
Violation of health regulation	1
Violation of labor laws	4
Violation of liquor laws	3
Violation of Lord's Day	72
Violation of motor vehicle laws	125
Violation of school laws	5
Violation of U. S. draft registration laws	17
Violation of parole from Mass. Reformatory	1
Violation of terms of probation	67
Walking on railroad track	6

 1,145

Recapitulation.

(1) Crimes and Offenses Against the Person	132
(2) Crimes and Offenses Against Property	373
(3) Crimes and Offenses Against Public Order, etc.	1,145

 1,650

Cases in which nolle prosequi was entered	45
Contempt of court	3
Delivered to jail at East Cambridge, bail sur- render, etc.	5
Delivered to police court Somerville, violation	

of probation, capias, default, etc.	81
Delivered to superior court, bail, surrender, capias, etc.,	2
Discontinued and dismissed in police court Som- erville	2
Escaped prisoner from lockup	1
Released by probation officer, drunkenness . .	30
Surrendered to other officers, institutions, etc. .	174

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 Number of cases held for trial 1,650

Note—Three hundred and eighty-eight of the above number of cases were juveniles and delinquents.

OFFICIAL ROSTER OF DEPARTMENT.

Chief of Police.

Charles A. Kendall

Captain.

Eugene A. Carter

Lieutenants.

Charles E. Woodman

James M. Harmon

John A. Ray

Inspectors.

Thomas Damery

Michael T. Kennedy

Sergeants.

William G. Kenney

James M. Lynch

Frank H. Graves

Ernest Howard

Patrolmen.

- | | |
|------------------------|-----------------------------|
| 1—Edward M. Carter | 39—Thomas P. Walsh |
| 2—George L. Smith | 40—Clyde W. Steeves |
| 3—Francis A. Perkins | 41—Augustine J. Fitzpatrick |
| 4—Theodore E. Heron | 42—Patrick McGrath |
| 5—Charles W. Stevens | 43—Bernard McCabe |
| 6—Daniel G. Simons | 44—Harry C. Young |
| 7—Samuel Burns | 45—Robert D. Dewar |
| 8—Jotham Chisholm | 46—Peter Moore |
| 9—William J. Davidson | 47—Albert C. Hawes |
| 10—John A. Dadmun | 48—Walter C. Oesting |
| 11—George L. Rice | 49—John L. Cameron |
| 12—Myron S. Gott | 50—Francis P. Higgins |
| 13—Charles W. Reick | 51—Arthur S. Walsh |
| 14—Frank C. Hopkins | 52—John J. McCahey |
| 15—Charles W. Allen | 53—Alexander Morrison |
| 16—Hudson M. Howe | 54—Daniel J. Powers |
| 17—Ernest S. Goff | 55—Jeremiah O'Connor |
| 18—Sanford S. Lewis | 56—Charles E. Wilson |
| 19—Henry A. Sudbey | 57—William J. Warner |
| 20—Thomas F. McNamara | 58—Timothy Buckley |
| 21—Louis F. Arnold | 59—John J. Killourhy |
| 22—Charles S. Johnston | 60—Charles J. Sharry |
| 23—Robert T. Blair | 61—Thomas M. Sharry |
| 24—Claude L. Crossman | 62—Michael J. O'Loughlin |
| 25—John J. Cummings | 63—Charles W. Shepherd |
| 26—Edmund J. Keane | 64—John F. Cruise |
| 27—Denis Neylon | 65—John J. Shay |
| 28—Denis Downey | 66—Edward G. Butman |
| 29—Edward M. Davies | 67—John P. L. O'Keefe |
| 30—George A. C. Peters | 68—Alfred E. Robitaille |
| 31—Louis J. Belzarini | 69—Allan S. Burns |
| 32—Walter Reed | 70—William H. Donovan |
| 33—Dennis G. Mulkeeney | 71—George R. Allan |
| 34—Patrick J. Doolin | 72—Jeremiah Keniry |
| 35—Edward J. Hopkins | 73—James Murray |
| 36—Walter L. Groves | 74—Charles J. Fulton |
| 37—Frederick G. Jones | 75—Edward F. Culliton |
| 38—Joseph A. Dwyer | |

Reservemen.

76—Elmer E. G. Raymond	80—Augustine F. Sharry
77—Frank J. Roche	81—Daniel M. O'Connell
78—Alfred J. McFadden	82—Chester F. Warner
79—James A. Fitzpatrick	83—George D. MacDonald

Chauffeurs and Patrol Drivers.

James W. Lundergan	James H. White
John H. McKenzie	

Matron.

Mrs. Mina T. Weeks

Assistant Matron.

Mrs. Katherine Woods

Absent, War Duty for United States Service.

Patrolman John L. Cameron	Reserveman Frank J. Roche
Patrolman Charles J. Sharry	Reserveman Alfred J. McFadden
Patrolman Allan S. Burns	Reserveman James A. Fitzpatrick
Patrolman William H. Donovan	Reserveman Augustine F. Sharry
Reserveman Elmer E. G. Raymond	

Pensioners, Retired on Half Pay.

John E. Fuller,	Mar. 23, 1906	George H. Carleton,	Mar. 27, 1914
Ira S. Carleton,	May 9, 1907	Frederick H. Googins,	Mar. 17, 1914
James J. Pollard,	Feb. 27, 1908	Robert R. Perry,	Apr. 14, 1916
Melville C. Parkhurst,	Oct. 31, 1908	Jacob W. Skinner,	Dec. 31, 1917
Herbert Hilton,	Dec. 21, 1911	Elmer E. Drew,	July 26, 1918
Ezra A. Dodge,	Mar. 14, 1914		

CHANGES IN THE FORCE.**Resignations.**

Ernest S. Leonard, reserveman, resigned, July 26, 1918.
 Thomas F. J. Long, patrolman, resigned, August 3, 1918.
 Edward M. Bickford, reserveman, resigned, December 4, 1918.

Retirement.

Elmer E. Drew, patrolman, placed on pension roll, July 26, 1918.

Appointments.

Daniel M. O'Connell, appointed reserveman, July 12, 1918.
 Chester F. Warner, appointed reserveman, July 13, 1918.
 Edward M. Bickford, appointed reserveman, July 13, 1918.
 George D. MacDonald, appointed reserveman, July 27, 1918.
 John H. McKenzie, appointed patrol driver and chauffeur, October 16, 1918.

Promotions.

Reserveman Jeremiah Keniry, promoted to patrolman, July 13, 1918.
 Reserveman James Murray, promoted to patrolman, July 13, 1918.
 Reserveman Charles J. Fulton, promoted to patrolman, July 13, 1918.
 Reserveman Edward F. Culliton, promoted to patrolman, July 13, 1918.

Police Signal Service.

Number of on duty calls made by the patrolmen . . .	261,544
Telephone calls made by the officers and patrolmen . . .	40,432

Combination Automobile Service.

Number of runs made in conveying prisoners to station . . .	458
Number of prisoners conveyed	615
Number of sick and injured conveyed	506
Number of miles run, conveying prisoners to station	932.1
Number of miles run, conveying sick and injured	1,453.6
Number of miles run, conveying prisoners to and from jail	581.4
Number of miles run elsewhere	754.4
Total number of miles run during the year	3,721.5

Horse Drawn Patrol Wagon and Horse Drawn Ambulance Reports.

Number of runs made in conveying prisoners to station . . .	8
Number of prisoners conveyed	8
Number of miles run in conveying prisoners to station . . .	12
Number of sick and injured conveyed	440
Number of miles run in conveying prisoners to and from jail . . .	60
Number of miscellaneous runs	11

Touring Car Reports.

Number of prisoners conveyed to station	93
Number of sick and injured conveyed	9
Number of trips made in conveying prisoners to and from jail	4

REPORT OF POLICE MATRON.

January 31, 1919.

To Charles A. Kendall, Chief of Police:—

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1918. The following females and minor children have been committed to my care, together with other calls and duties, and have attended and remained during the juvenile sessions of court on Saturdays, reporting at police station each morning, etc.:—

Adultery	1
Assault and battery	18
Bail surrender	2
Common drunkard	2
Continued cases	18

Default	1
Demented	13
Disturbing the peace	3
Drunkenness	19
Insane	4
Keeping disorderly house	2
Larceny	13
Lewd and lascivious conduct	3
Lost children	73
Neglected children	14
Operating automobile without license	1
Patrol calls	7
Perjury	1
Psychopathic calls	6
Receiving stolen goods	2
Runaway girl	1
Stubbornness	6
Trespass	5
Violation motor vehicle laws	3
Violation of probation	1
Violation of school law	1
Warrant	1
Total	221

Respectfully submitted,

MRS. MINA T. WEEKS,

Matron.

Conclusion.

During the past year this department has had additional duties to perform owing to war activities and has rendered valuable assistance to the United States government in all of its branches of service.

To His Honor the Mayor, Charles W. Eldridge, members of the board of aldermen, court officials and members of the department I wish to extend my sincere thanks for their assistance.

Respectfully submitted,

CHARLES A. KENDALL,

Chief of Police.

REPORT OF SEALER OF WEIGHTS AND MEASURES

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
City Hall Annex, Somerville, January 1, 1919.

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the sealer of weights and measures for the year 1918 is respectfully submitted:—

Chapter 62 of Revised Laws:—

Section 21. Sealers of weights and measures shall annually give public notice by advertisement, or by posting, in one or more public places in their respective cities and towns, notices to all inhabitants or persons having usual places of business therein who use weights, measures or balances for the purpose of selling goods, wares, merchandise or other commodities or for public weighing, to bring in their weights, measures and balances to be adjusted and sealed. Such sealers shall attend in one or more convenient places, and shall adjust, seal and record all weights, measures and balances so brought in.

Section 23. Said sealers shall go once a year, and oftener if necessary, to every hay and coal scale and to every platform balance within their respective cities and towns which cannot be easily or conveniently removed, and shall test the accuracy of, adjust and seal the same.

Section 34. Each sealer of weights and measures, including the county treasurers, shall receive a fee of one dollar for sealing each platform balance if weighing five thousand pounds or more, and fifty cents if weighing less than that amount, and three cents each for sealing all other weights, measures, scales, beams or balances. He shall also have a reasonable compensation for all necessary repairs, alterations and adjustments made by him.

When weights and measures are sealed as provided in Section 21 (that is, brought to the office) no fees are charged for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertising in the Somerville papers in March, 1918.

During the year all places where goods were bought or sold were visited and all scales, weights and measures were tested, and all found correct were sealed and all found not correct were condemned.

ANNUAL REPORT.

Work of Weights and Measures Department for 1918.

Number of scales sealed	1,830	
Number of weights sealed	3,984	
Number of dry measures sealed	90	
Number of liquid measures sealed	5,519	
Number of oil and gas pumps sealed	235	
Number of yard sticks sealed	141	
Number of miscellaneous sealed	14	
	<hr/>	
Total		
Number of scales adjusted	35	
Number of weights adjusted	26	
	<hr/>	
Total		61
Number of scales condemned	82	
Number of weights condemned	30	
Number of dry measures condemned	5	
Number of liquid measures condemned	58	
Number of yard sticks condemned	1	
	<hr/>	
Total		176
Number of scales and weights out of use non-sealed	79	
Number of inspections in stores and street	2,145	
	<hr/>	
Total tests made in 1918		14,274

JOHN H. DUSSEAUT,

Sealer of Weights and Measures.

REPORT OF THE LAW DEPARTMENT

To the Honorable the Mayor and the Board of Aldermen of the City of Somerville:—

The annual report of the law department for the year ending December 31, 1918, is as follows:—

An action brought in the Suffolk superior court on a claim for injuries received by reason of a defect in Somerville avenue was tried and before a decision was given a compromise settlement was made, with the approval of the finance committee. Settlements were made of several other claims of a similar nature. Petitions for the abatement of taxes assessed on a large tract of land in West Somerville are pending in the superior court and will probably be taken to the full bench of the supreme court on questions of law.

An action brought by the Union Glass Company for damages to its real estate resulting from the abolition of the railroad grade crossing at Webster avenue was settled for \$35,000. with the approval of the attorney general, the railroad company and the street railway company. This settlement was equivalent, making allowance for interest and costs, to an original settlement for about \$21,000. A settlement of a claim for damages at the Park street crossing was made for \$1,800. with the approval of the attorney general and the railroad company.

Under a single decree of the superior court covering Medford street, Webster avenue, Dane street and Park street, the work of construction has been substantially completed for the abolition of all the crossings except that at Park street. The delay at this street has been due to unfavorable conditions, some of them of a general nature growing out of the war, and others specially affecting the railroad companies. The Park street crossing is dangerous and should be abolished as soon as conditions warrant a public improvement of such a kind.

Very respectfully,

FRANK W. KAAH,
City Solicitor.

REPORT OF THE CITY CLERK

OFFICE OF THE CITY CLERK,
January 1, 1919.

To the Honorable, the Mayor and the Board of Aldermen:—

Gentlemen,—The following is respectfully submitted as the forty-seventh annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1918.

The receipts and payments were as follows:—

Receipts.

Balance from year 1917, being for dog licenses issued in November and December, 1917:—		
14 males at \$2.00	\$28 00	
1 female at \$5.00	5 00	
	<hr/>	
	\$33 00	
Less city clerk's fees paid to the city treasurer, 15 at \$.20	3 00	
	<hr/>	\$30 00
For dog licenses issued in 1918:—		
764 males at \$2.00	\$1,528 00	
163 females at \$5.00	815 00	
77 spayed at \$2.00	154 00	
	<hr/>	\$2,497 00
Recording mortgages, assignments, etc., 691 papers	\$435 02	
Certificates of marriage intentions:—		
947 licenses and 2 duplicates at \$1.00	949 00	
Furnishing copies of records	312 52	
Licenses:—		
Auctioneers, 18 licenses at \$2.00	36 00	
Billiard and pool tables and bowling alleys:—		
27 licenses for 82 tables and 56 alleys at \$2.00	276 00	
Drain layers, 3 licenses at \$1.00	3 00	
Engines and motors:—		
19 licenses for 18 motors and 1 engine at \$1.00	\$19 00	
1 license for 1 motor granted in 1917	1 00	
	<hr/>	20 00
Gasoline tanks, 23 licenses including 1 paid in 1917	22 00	
Garages:—		
86 licenses at \$2.00	\$172 00	
3 licenses granted in 1917	6 00	
	<hr/>	178 00
Hackney carriages—2 licenses at \$1.00	2 00	
	<hr/>	
Amounts carried forward	\$2,233 54	\$2,527 00

Amounts brought forward . . .	\$2,233 54	\$2,527 00
Innholders and common victuallers:—		
35 licenses for 33 victuallers and 2 innholders at \$2.00 . . .	70 00	
Intelligence offices, 2 licenses at \$2.00 . . .	4 00	
Junk and second-hand licenses:—		
43 licenses at \$10 00 . . . \$430 00		
1 license granted in 1917 . . .	10 00	
16 licenses at \$25.00 . . .	400 00	
1 license granted in 1917 . . .	25 00	
	<hr/>	865 00
Lord's day, sale of ice cream, confectionery, soda water and fruit, on:—		
75 licenses at \$5.00 . . .	375 00	
Private detectives, 3 licenses at \$10.00 . . .	30 00	
Slaughtering, 7 licenses at \$1.00 . . .	7 00	
Street musicians, 4 licenses for 4 persons at \$0.50 . . .	2 00	
Wagons, 36 licenses for 65 wagons at \$1.00 . . .	65 00	
Permits for projections over sidewalks:—		
8 permits for 8 signs and 1 swing arm, at \$1.00 . . . \$8 00		
and 1 swing arm, at and 1 swing arm granted in 1917 . . .	2 00	
	<hr/>	10 00
Filing certificates, under Acts of 1908, Chap. 502, 2 at \$0.50 . . .	1 00	
Interest on deposits . . .	8 81	
Notices of hearings (public service corporations) . . .	24 69	
Physicians' registration, 3 at \$.25 . . .	75	
Chiropodists' registration, 2 at \$0.50 . . .	1 00	
Repairing and sale of junk badges . . .	5 65	
Sale of old ballots . . .	7 55	
	<hr/>	3,710 99
Total receipts . . .		<hr/> \$6,237 99

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from November 1, 1917, to November 30, 1918, both inclusive:—

771 males at \$2.00 . . .	\$1,542 00
164 females at \$5.00 . . .	820 00
77 spayed at \$2.00 . . .	154 00

	\$2,516 00
Less city clerk's fees, 1,012 at \$0.20 . . .	202 40

\$2,313 60

To the city treasurer, monthly:—

City clerk's fees for issuing and re- cording dog licenses, 1,004 at \$0.20 .	\$200 80	
All the receipts above specified, except for dog licenses	3,710 99	3,911 79
		<hr/>
Total payments		\$6,225 39
Balance, January 1, 1919, being for dog li- censes issued in December, 1918:—		
6 males at \$2.00	\$12 00	
1 spayed at \$2.00	2 00	
	<hr/>	
	\$14 00	
Less city clerk's fees paid to the city treasurer, 7 at \$0.20	1.40	12 60
		<hr/>

There have been issued during the year, 301 hunters' certificates, the fees for which have been paid monthly to the commissioners on fisheries and game of the Commonwealth, as follows:—

271 resident at \$1.00	\$271 00	
2 unnaturalized foreign born at \$15.00	30 00	\$301 00
	<hr/>	

Licenses and Permits.

Besides the licenses mentioned in the foregoing list of receipts, licenses and permits have been granted by the Board of Aldermen, without charge, as follows:—

Auctioneers (to veterans of the Civil War)	2
Children under fifteen to take part in entertainments	8
Newsboys	8
To keep lodging houses, under Chap. 259, Acts of 1918	34
To hold open-air meetings	3
To parade in streets, with music, etc.	3
To hold religious services in streets and squares	3
To give band concerts (one permit for six concerts)	1
To move buildings through streets	1
To erect Memorial tablet in public square	1

Births.

1918.

Number of births reported by physicians and midwives for 1918:—

Males	971
Females	963

A canvass of the city is at present being made under the direction of the city clerk as required by Section 5, Chapter 29, of the Revised Laws, to ascertain the facts required for record relative to children born during the year.

As the information derived from such canvass will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1918 will be given in the city clerk's report for the year 1919.

1917

The following is a statement in full of the births for 1917:—

Number of births (exclusive of still births) in Somerville in 1917 registered	2,035
More than previous year	83
Males	1,011
Females	1,024
	<hr/> 2,035
Born of American parents	797
Born of foreign parents	792
Born of American father and foreign mother	198
Born of foreign father and American mother	227
Born of American mother and father of unknown nationality	18
Born of foreign mother and father of unknown nationality	3
	<hr/> 2,035
Number of still-births in Somerville in 1917 as registered	69
Number of births in other places in 1917 registered	517
	<hr/> 2,621
Number of cases of twins	17

Marriages.

Number of intention certificates issued in 1918	947
Less than previous year	295
Marriages registered	963
Less than previous year	314
Both parties American	537
Both parties foreign	169
American groom and foreign bride	127
Foreign groom and American bride	130
	<hr/> 963 couples
First marriage of	1,684
Second marriage of	230
Third marriage of	11
Fourth marriage of	1
	<hr/> 963 couples

Deaths.

(Exclusive of still-births.)

Number of deaths in Somerville in 1918	1,532
More than previous year	465
Males	723
Females	809
	<hr/> 1,532

Under ten years of age	322	
10 and under 20 years of age	68	
20 and under 30 years of age	177	
30 and under 40 years of age	192	
40 and under 50 years of age	116	
50 and under 60 years of age	136	
60 and under 70 years of age	189	
70 and under 80 years of age	205	
80 and under 90 years of age	110	
90 years of age and over	17	
	<hr/>	1,532
Age of oldest person deceased 98 years		
Born in Somerville	367	
Born in other places in the United States	641	
Of foreign birth	518	
Birthplace unknown	6	
	<hr/>	1,532
Number of deaths in January	106	
Number of deaths in February	102	
Number of deaths in March	125	
Number of deaths in April	117	
Number of deaths in May	95	
Number of deaths in June	86	
Number of deaths in July	94	
Number of deaths in August	70	
Number of deaths in September	209	
Number of deaths in October	295	
Number of deaths in November	87	
Number of deaths in December	146	
	<hr/>	1,532

The number of still-births during the year was seventy-four. In addition to the above 317 deaths which occurred elsewhere and five removals were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

ASSESSED POLLS AND REGISTERED VOTERS.

Men's Lists.

WARD	PRECINCT.	As- sessed Polls, April 1, 1918	REGISTERED VOTERS.							
			Nov. 21, 1917.	Re- vised Lists of July 15 1918	Add- ed in Sept. & Oct. 1918	Oct. 16, 1918	Add- ed in Nov. 1918	Nov. 20, 1918	Voted Nov. 5, 1918	Voted Dec. 10, 1918
Ward 1.....	Precinct 1.....	1,473	660	586	85	671	2	673	453	151
" 1.....	" 2.....	1,011	417	399	45	444	4	448	310	80
" 1.....	" 3.....	483	273	232	18	250	.....	250	176	34
" 1.....	" 4.....	661	247	208	15	223	.....	223	160	58
		3,628	1,597	1,425	163	1,588	6	1,594	1,099	323
Ward 2.....	Precinct 1.....	1,078	400	368	19	387	1	388	269	52
" 2.....	" 2.....	1,752	733	663	96	759	.....	759	533	70
" 2.....	" 3.....	743	331	315	32	347	4	351	229	34
		3,573	1,464	1,346	147	1,493	5	1,498	1,031	156
Ward 3.....	Precinct 1.....	1,293	832	758	40	798	1	799	570	127
" 3.....	" 2.....	1,236	677	640	66	706	5	711	523	133
		2,529	1,509	1,398	106	1,504	6	1,510	1,093	260
Ward 4.....	Precinct 1.....	1,300	719	628	27	655	3	658	467	119
" 4.....	" 2.....	1,289	653	581	22	693	6	609	427	144
		2,589	1,372	1,209	49	1,258	9	1,267	894	263
Ward 5.....	Precinct 1.....	1,353	788	719	34	753	2	755	564	124
" 5.....	" 2.....	1,071	631	591	46	637	2	639	457	116
" 5.....	" 3.....	1,008	593	534	16	550	1	551	381	62
		3,432	2,012	1,844	96	1,940	5	1,945	1,402	302
Ward 6.....	Precinct 1.....	1,921	915	833	38	871	19	890	596	353
" 6.....	" 2.....	1,509	813	734	33	767	8	775	541	266
" 6.....	" 3.....	1,223	778	701	44	745	3	748	531	242
		4,653	2,506	2,268	115	2,383	30	2,413	1,668	866
Ward 7.....	Precinct 1.....	1,023	722	662	37	699	5	704	543	131
" 7.....	" 2.....	1,231	752	676	25	701	1	702	511	129
" 7.....	" 3.....	1,498	862	788	28	816	2	818	610	164
" 7.....	" 4.....	1,038	623	576	28	604	3	607	461	126
" 7.....	" 5.....	778	407	390	26	416	3	419	294	66
		5,568	3,366	3,092	144	3,236	14	3,250	2,419	616
City		25,972	13,826	12,582	820	13,402	75	13,477	9,606	2,786

Women's Voting Lists.

WARD.	PRECINCT.	Nov. 21. 1917.	Revised Lists of July 15 1918.	Added in Sept. Oct. and Nov. 1918.	Nov. 20. 1918.	Voted Dec. 10, 1918.
Ward 1.....	Precinct 1.....	59	52	.....	52	3
" 1.....	" 2.....	35	32	.....	32	1
" 1.....	" 3.....	24	18	.....	18	.....
" 1.....	" 4.....	50	36	.....	36	.....
		168	138	.....	138	4
Ward 2.....	Precinct 1.....	5	5	.....	5	.....
" 2.....	" 2.....	14	11	.....	11	.....
" 2.....	" 3.....	9	6	.....	6	.....
		28	22	.....	22	.....
Ward 3.....	Precinct 1.....	139	123	.....	123	3
" 3.....	" 2.....	126	113	.....	113	2
		265	236	.....	236	5
Ward 4.....	Precinct 1.....	52	50	.....	50	1
" 4.....	" 2.....	95	90	.....	90	7
		147	140	.....	140	8
Ward 5.....	Precinct 1.....	212	174	4	178	7
" 5.....	" 2.....	147	129	.....	129	3
" 5.....	" 3.....	193	173	.....	173	.....
		552	476	4	480	10
Ward 6.....	Precinct 1.....	214	210	1	211	1
" 6.....	" 2.....	73	66	.....	66	.....
" 6.....	" 3.....	73	67	1	68	1
		360	343	2	345	2
Ward 7.....	Precinct 1.....	42	37	.....	37	.....
" 7.....	" 2.....	86	75	-1	74	1
" 7.....	" 3.....	59	38	1	39	.....
" 7.....	" 4.....	15	14	.....	14	.....
" 7.....	" 5.....	15	15	1	16	.....
		217	179	1	180	1
City		1,737	1,534	7	1,541	30

ELECTIONS.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on various questions, at the state election held November 5, 1918:—

CANDIDATE.	PARTY.	WARD.							Total.
		1	2	3	4	5	6	7	
GOVERNOR.									
Calvin Coolidge,	Republican,	438	183	644	586	763	985	1,687	5,286
Richard H. Long,	Democratic,	636	823	429	297	617	644	699	4,145
Sylvester J. McBride,	Socialist,	10	9	8	7	10	21	13	78
Ingvar Paulsen,	Socialist Labor,	3	2	1	1	3	5	2	17
Blank,		12	14	11	3	9	13	18	80
LIEUTENANT GOVERNOR.									
Channing H. Cox,	Republican,	492	198	662	618	826	1,051	1,816	5,663
Oscar Kinsalas,	Socialist Labor,	13	12	10	5	11	22	45	118
Joseph H. O'Neil,	Democratic,	570	777	397	245	538	563	521	3,611
Blank,		24	44	24	26	27	32	37	214
SECRETARY.									
Albert P. Langtry,	Republican,	502	200	676	647	853	1,082	1,871	5,831
Charles H. McGlue,	Democratic,	518	747	368	203	495	507	447	3,288
William Taylor,	Socialist Labor,	18	13	15	6	12	25	26	115
Blank,		61	71	34	35	42	54	75	372
TREASURER.									
Charles L. Burrill,	Republican,	507	200	677	633	841	1,069	1,866	5,793
Charles Giddings,	Democratic,	496	749	367	213	499	501	458	3,283
Mary E. Peterson,	Socialist Labor,	22	19	16	6	18	32	36	149
Blank,		74	63	33	42	44	66	59	381
AUDITOR.									
Alonzo B. Cook,	Republican,	512	205	672	639	839	1,070	1,863	5,800
Francis M. Costello,	Democratic,	508	747	359	204	510	500	444	3,272
Fred E. Oelcher,	Socialist Labor,	12	11	7	4	8	21	19	82
Blank,		67	68	55	47	45	77	93	452
ATTORNEY-GENERAL.									
Henry C. Attwill,	Republican,	519	209	680	646	848	1,087	1,890	5,879
Morris I. Becker,	Socialist Labor,	17	14	10	8	12	24	73	158
Joseph L. P. St. Coeur,	Democratic,	490	749	357	186	500	492	355	3,159
Blank,		73	59	46	54	42	65	71	410

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
SENATOR IN CONGRESS.									
Thomas W. Lawson,	Independent,	76	23	36	49	59	67	173	483
David I. Walsh,	Democratic,	628	836	442	320	657	671	703	4,257
John W. Weeks,	Republican,	379	155	596	510	671	902	1,516	4,729
Blank,		16	17	19	15	15	28	27	137
CONGRESSMAN, NINTH DISTRICT.									
Alvan T. Fuller,	Republican,	571	250	702	672	907	1,093	1,907	6,102
Henry C. Rowland,	Democratic,	473	720	357	194	456	507	458	3,165
Blank,		55	61	34	28	39	68	54	339
COUNCILLOR, FOURTH DISTRICT.									
George B. Wason,	Republican,	637	334	754	683	963	1,210	1,983	6,564
Frank P. Harrington,						1			1
Blank,		462	697	339	211	438	458	436	3,041
SENATOR, 3RD. MIDDLESEX DIST.									
Joseph O. Knox,	Republican,	644	346	776	690	997	1,225	2,031	6,709
Patrick H. Ryan,						1			1
Blank,		455	685	317	204	404	443	388	2,896
REPRESENTATIVES, 23RD. DIST. (3)									
Charles M. Austin,	Republican,	623	.....	752	654	947	.....	.....	2,976
William Fleming,	Republican,	635	.....	704	620	906	.....	.....	2,865
Charles L. Underhill,	Republican,	568	.....	680	601	871	.....	.....	2,720
Blank,		1,471	.....	1,143	807	1,482	.....	.....	4,903
REPRESENTATIVES, 24TH. DIST. (3)									
Warren C. Daggett,	Republican,	.....	304	.....	.....	.....	1,105	1,863	3,272
William P. French,	Republican,	.....	299	.....	.....	.....	1,108	1,919	3,326
Joseph Linhares,	Democratic,	.....	690	.....	.....	.....	502	482	1,674
Arthur W. Robinson,	Republican,	.....	249	.....	.....	.....	1,061	1,764	3,074
Joseph J. Pincus,		.....	.....	.....	.....	.....	.....	1	1
Joseph Pincus,		.....	.....	.....	.....	.....	1	.....	1
Blank,		.....	1,551	.....	.....	.....	1,227	1,228	4,006
COUNTY COMMISSIONER, MIDDLESEX COUNTY.									
Alfred L. Cutting,	Republican,	635	329	752	673	963	1,199	2,009	6,560
Frederick J. Hubert,						1			1
Blank,		464	702	341	221	438	469	410	3,045
COUNTY TREASURER, MIDDLESEX COUNTY.									
Joseph O. Hayden,	Republican,	647	356	758	671	978	1,215	2,006	6,631
William Baro,						1			1
Martin J. Ryan,							1		1
Blank,		452	675	335	223	423	452	413	2,973
REGISTER OF PROBATE AND INSOLVENCY.									
Frederick M. Esty,	Republican,	637	333	752	669	967	1,205	1,992	6,555
Thomas L. Williams,						1			1
Blank,		462	698	341	225	434	463	427	3,050

	WARDS.							
	1	2	3	4	5	6	7	Total.
"SHALL THE ARTICLE OF AMENDMENT RELATIVE TO THE ESTABLISHMENT OF THE POPULAR INITIATIVE AND REFERENDUM AND THE LEGISLATIVE INITIATIVE OF SPECIFIC AMENDMENTS OF THE CONSTITUTION, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	520	592	424	399	618	690	960	4,203
Number of "No" votes,	360	198	518	362	601	756	1,160	3,955
Blank,	219	241	151	133	183	222	299	1,448
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE PUBLIC INTEREST IN NATURAL RESOURCES, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	527	470	473	437	670	768	1,155	4,500
Number of "No" votes,	202	153	320	215	358	424	642	2,314
Blank,	370	408	300	242	374	476	622	2,792
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT TO PROVIDE FOR THE REGULATION OF ADVERTISING IN PUBLIC PLACES, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	599	484	598	497	806	904	1,409	5,297
Number of "No" votes,	181	141	211	174	243	316	463	1,729
Blanks,	319	406	284	223	353	448	547	2,580
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE PRESERVATION AND MAINTENANCE OF PROPERTY OF HISTORICAL AND ANTIQUARIAN INTEREST, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	564	476	561	464	768	849	1,309	4,991
Number of "No" votes,	166	132	234	173	242	326	470	1,743
Blank,	369	423	298	257	392	493	640	2,872
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO ADJOURNMENTS OF THE GENERAL COURT, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	470	419	469	382	614	706	1,000	4,060
Number of "No" votes,	223	165	269	227	332	395	625	2,236
Blank,	406	447	355	285	456	567	794	3,310

	WARDS,							Total.
	1	2	3	4	5	6	7	
"SHALL THE ARTICLE OF AMENDMENT AUTHORIZING THE GENERAL COURT TO PRESCRIBE, SUBJECT TO CERTAIN RESTRICTIONS, THE MANNER OF THE APPOINTMENT AND REMOVAL OF MILITARY AND NAVAL OFFICERS TO BE COMMISSIONED BY THE GOVERNOR, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	519	438	494	434	651	745	1065	4,316
Number of "No" votes,	177	148	253	186	295	346	528	1,933
Blank,	403	445	346	274	456	577	826	3,327
"SHALL THE ARTICLE OF AMENDMENT DEFINING THE POWERS AND DUTIES OF THE GENERAL COURT RELATIVE TO THE MILITARY AND NAVAL FORCES, AND OF THE GOVERNOR AS COMMANDER-IN-CHIEF THEREOF, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	528	439	489	413	621	757	1087	4,344
Number of "No" votes,	163	122	245	181	289	321	478	1,799
Blank	408	470	359	300	482	590	854	3,463
"SHALL THE ARTICLE OF AMENDMENT PROVIDING FOR THE SUCCESSION, IN CASES OF VACANCIES IN THE OFFICES OF GOVERNOR AND LIEUTENANT GOVERNOR, BY THE SECRETARY, ATTORNEY-GENERAL, TREASURER, AND RECEIVER-GENERAL, AND AUDITOR, IN THE ORDER NAMED, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	560	465	540	448	708	836	1257	4,814
Number of "No" votes	145	122	221	168	253	298	416	1,623
Blank	394	444	332	278	441	534	746	3,169
"SHALL THE ARTICLE OF AMENDMENT AUTHORIZING THE GOVERNOR TO RETURN TO THE GENERAL COURT WITH A RECOMMENDATION FOR AMENDMENT BILLS AND RESOLVES WHICH HAVE BEEN LAID BEFORE HIM, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	531	451	507	425	669	800	1192	4,575
Number of "No" votes,	154	114	223	154	244	296	410	1,595
Blank	414	466	363	315	489	572	817	3,436
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT PROVIDING THAT WOMEN SHALL BE ELIGIBLE TO APPOINTMENT AS NOTARIES PUBLIC, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	469	385	443	394	615	734	1037	4,077
Number of "No" votes,	246	207	313	222	364	429	652	2,433
Blank	384	439	337	278	423	505	730	3,096

	WARDS.							Total.
	1	2	3	4	5	6	7	
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE RETIREMENT OF JUDICIAL OFFICERS, SUBMITTED BY THE CONSTITUTIONAL CONVENTION BE APPROVED AND RATIFIED?"								
Number of "Yes" votes.	511	439	497	402	678	781	1088	4,396
Number of "No" votes,	161	136	233	179	267	322	475	1,773
Blank,	427	456	363	313	457	565	856	3,437
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE REVOCATION OR ALTERATION OF GRANTS, FRANCHISES, PRIVILEGES OR IMMUNITIES, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes.	525	440	497	413	673	819	1136	4,503
Number of "No" votes,	155	121	223	159	252	291	427	1,628
Blank,	419	470	373	322	477	558	856	3,475
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE POWER OF THE GENERAL COURT TO LIMIT BUILDINGS ACCORDING TO THEIR USE OR CONSTRUCTION TO SPECIFIED DISTRICTS OF CITIES AND TOWNS, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	503	438	504	424	667	796	1153	4,485
Number of "No" votes,	176	128	239	173	270	317	441	1,744
Blank,	420	465	350	297	465	555	825	3,377
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO COMPULSORY VOTING AT ELECTIONS, SUBMITTED BY THE CONSTITUTIONAL CONVENTION BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	406	395	418	357	539	712	943	3,760
Number of "No" votes,	314	217	361	252	453	480	776	2,853
Blank,	379	429	314	285	410	476	700	2,993
"SHALL THE AMENDMENT OF THE CONSTITUTION LIMITING THE POWER OF THE GENERAL COURT TO LEND THE CREDIT OF THE COMMONWEALTH AND TO CONTRACT LOANS, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	492	427	492	382	635	775	1110	4,313
Number of "No" votes,	190	141	251	189	296	334	514	1,915
Blank,	417	463	350	323	471	559	795	3,378
"SHALL THE AMENDMENT TO THE CONSTITUTION PROVIDING FOR A STATE BUDGET AND THE VETO BY THE GOVERNOR OF ITEMS OR PARTS OF ITEMS IN APPROPRIATION BILLS BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	491	440	509	400	670	786	1137	4,433
Number of "No" votes,	162	122	208	167	243	304	456	1,662
Blank,	446	469	376	327	489	578	826	3,511

	WARDS.							Total.
	1	2	3	4	5	6	7	
"SHALL THE AMENDMENT OF THE CONSTITUTION PROVIDING FOR BIENNIAL ELECTIONS OF STATE OFFICERS, COUNCILLORS AND MEMBERS OF THE GENERAL COURT, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	434	353	439	354	594	710	976	3,860
Number of "No" votes,	258	230	326	239	371	450	701	2,575
Blank,	407	448	328	301	437	508	742	3,171
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO SERVICE ON CERTAIN LEGISLATIVE RECESS COMMITTEES AND COMMISSIONS, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	488	421	494	384	657	777	1122	4,343
Number of "No" votes,	187	139	234	191	278	341	472	1,842
Blank,	424	471	365	319	467	550	825	3,421
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT TO PROVIDE FOR THE MORE EFFICIENT ADMINISTRATION OF THE BUSINESS OF THE COMMONWEALTH, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	508	437	505	397	682	793	1144	4,466
Number of "No" votes,	165	131	223	182	244	314	448	1,707
Blank,	426	463	365	315	476	561	827	3,433

The following is a statement of the votes cast in the several wards of the city for the candidates for the various offices, and on the question of granting licenses for the sale of intoxicating liquors in this city, at the city election held December 10, 1918:—

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
MAYOR,									
Charles W. Eldridge,	Republican,	254	84	244	245	269	690	567	2,353
Bernard Daley,		1							1
Asa Prichard,						1			1
J. Edward McLean,							1		1
Blank,		68	72	16	18	32	175	49	430
ALDERMAN-AT-LARGE, WARD 1.									
Justin P. Nowell,	Republican,	231	64	221	218	250	526	499	2,009
Joseph B. Siggins,						1			1
Blank,		92	92	39	45	51	340	117	776
ALDERMAN-AT-LARGE, WARD 2,									
James J. Comfort,	Republican,	206	79	211	205	248	527	495	1,971
Morris Sisk,						1			1
Blank,		117	77	49	58	53	339	121	814
ALDERMAN-AT-LARGE, WARD 3,									
John M. Webster,	Republican,	209	58	227	214	249	512	490	1,959
Blank,			114	98	33	49	53	354	126	827
ALDERMAN-AT-LARGE, WARD 4,									
Charles H. Manzer,	Republican,	201	60	214	228	246	502	489	1,940
Blank,			122	96	46	35	56	364	127	846
ALDERMAN-AT-LARGE, WARD 5,									
William J. Bell,	Republican,	199	57	219	216	267	504	486	1,948
Blank,			124	99	41	47	35	362	130	838
ALDERMAN-AT-LARGE, WARD 6,									
Enoch B. Robertson,	Republican,	203	66	223	208	248	621	501	2,070
Harry J. Norton,							1		1
Blank,		120	90	37	55	54	244	115	715
ALDERMAN-AT-LARGE, WARD 7,									
Eugene M. Carman,	Republican,	194	63	219	209	245	506	556	1,992
Blank,			129	93	41	54	57	360	60	794
WARD ALDERMEN, (2) WARD 1,									
Ralph H. Hosmer,	Republican,	220							220
James J. Shay,	Republican,	217							217
George N. Coyle,		37							37
Edward H. Young,		32							32
Edward Young,		7							7
Blank.		133							133

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
WARD ALDERMEN, (2) WARD 2,									
Peter F. Donnelly,	Democratic,	.....	111	.....	.....	.....	.....	.....	111
Robert C. Harris,	Democratic,	.....	109	.....	.....	.....	.....	.....	109
Blank,		.....	92	.....	.....	.....	.....	.....	92
WARD ALDERMEN, (2) WARD 3,									
William C. Abbott,	Republican,	.....	.....	223	.....	.....	.....	.....	223
George A. Berry,	Republican,	.....	.....	230	.....	.....	.....	.....	230
Blank,		.....	.....	67	.....	.....	.....	.....	67
WARD ALDERMEN, (2) WARD 4,									
Richard L. Rice,	Republican,	.....	.....	.....	221	.....	.....	.....	221
Walter H. Snow,	Republican,	.....	.....	.....	219	.....	.....	.....	219
Blank,		.....	.....	.....	86	.....	.....	.....	86
WARD ALDERMEN, (2) WARD 5,									
Fred Allen,	Republican,	.....	.....	.....	.....	247	.....	.....	247
Alfred M. Pride,	Republican,	.....	.....	.....	.....	252	.....	.....	252
Blank,		.....	.....	.....	.....	105	.....	.....	105
WARD ALDERMEN, (2) WARD 6,									
Almon F. Heald,	Republican,	.....	.....	.....	.....	.....	481	.....	481
John E. Locatelli,	Republican,	.....	.....	.....	.....	.....	528	.....	528
Harry J. Norton,	Independent,	.....	.....	.....	.....	.....	418	.....	418
Blank,		.....	.....	.....	.....	.....	305	.....	305
WARD ALDERMEN, (2) WARD 7,									
Hiram N. Dearborn,	Republican,	.....	.....	.....	.....	.....	.....	540	540
Wilbur F. Lewis,	Republican,	.....	.....	.....	.....	.....	.....	539	539
Blank,		.....	.....	.....	.....	.....	.....	153	153
SCHOOL COMMITTEE (2 yrs.) WARD 1,									
Winnifred P. Davis,	Republican,	234	.....	.....	.....	.....	.....	.....	234
Blank,		93	.....	.....	.....	.....	.....	.....	93
SCHOOL COMMITTEE (2 yrs.) WARD 2,									
Christopher J. Muldoon, Jr.	Democratic,	.....	106	.....	.....	.....	.....	.....	106
Blank,		.....	50	.....	.....	.....	.....	.....	50
SCHOOL COMMITTEE (2 yrs.) WARD 3,									
Oscar W. Coddling,	Republican,	.....	.....	231	.....	.....	.....	.....	231
Blank,		.....	.....	34	.....	.....	.....	.....	34
SCHOOL COMMITTEE (2 yrs.) WARD 4,									
Frank H. Holmes,	Republican,	.....	.....	.....	232	.....	.....	.....	232
Blank,		.....	.....	.....	39	.....	.....	.....	39

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE (1 yr.) WARD 4. (to fill vacancy)									
Edgar F. Sewall,	Republican,	.....	.....	.....	244	.....	.....	.....	244
Blank,		.....	.....	.....	27	.....	.....	.....	27
SCHOOL COMMITTEE (2 yrs.) WARD 5.									
Blanche E. Herbert,	Republican,	.....	.....	.....	.....	263	.....	.....	263
Frank H. Holmes,		.....	.....	.....	.....	1	.....	.....	1
Blank,		.....	.....	.....	.....	48	.....	.....	48
SCHOOL COMMITTEE (2 yrs.) WARD 6.									
William M. Morrison,	Republican,	.....	.....	.....	.....	.....	592	.....	592
Blank,		.....	.....	.....	.....	.....	276	.....	276
SCHOOL COMMITTEE (1 yr.) WARD 6 (to fill vacancy)									
Paul S. Burns,	Republican,	.....	.....	.....	.....	.....	583	.....	583
Blank,		.....	.....	.....	.....	.....	285	.....	285
SCHOOL COMMITTEE (2 yrs.) WARD 7.									
Herbert Cholerton,	Republican.	.....	.....	.....	.....	.....	.....	554	554
Blank,		.....	.....	.....	.....	.....	.....	63	63
"SHALL LICENSES BE GRANTED FOR THE SALE OF INTOXICATING LIQUORS IN THIS CITY?"									
Number of "Yes" votes,		124	97	54	41	64	216	94	690
Number of "No" votes,		182	43	195	217	228	556	514	1,935
Blank,		17	16	11	5	10	94	8	161

Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION.
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000
1914	2,178	5,535	488	13,404	85,000
1915	1,705	5,262	379	13,805	*86,854
1916	1,100	4,158	271	14,500	88,000
1917	1,291	3,457	232	13,826	90,000
1918	690	1,935	161	13,477	90,500

*Census.

ORDINANCES.

Somerville, January 1, 1919.

The following ordinances have been adopted since the printing of the annual reports for the year 1917:—

Ordinance No. 83**An Ordinance Relative to Fees for Wiring Permits, Etc.**

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 3 of Chapter XXIV of the Revised Ordinances of 1911 is hereby amended by adding the following thereto: No person shall arrange, affix or change any such wires, appliances or apparatus or any fixtures without first obtaining a permit so to do from said commissioner. The following fees must be paid before such permit is granted:

For wiring only, including one inspection.....	\$1.00
For installing fixtures, including one inspection.....	.50
For each additional inspection.....	.50

Section 2. This ordinance shall take effect July 1, 1918.

Approved June 28, 1918.

Ordinance No. 84.**An Ordinance Relative to Travel on Public Ways.**

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. A vehicle meeting another vehicle shall pass to the right.

Section 2. A vehicle overtaking another vehicle shall, in passing, keep to the left.

Section 3. Whenever there is not an unobstructed view of the road for at least 100 yards, the driver of every vehicle shall keep the same on the right of the middle of the traveled part of the way whenever it is safe and practicable so to do.

Section 4. Subject to Section 3 fast moving vehicles, except when overtaken by faster vehicles (to which they shall give way), shall keep away from the right hand sidewalk and as near as possible to the centre of the traveled part of the way.

Section 5. Slow moving vehicles shall keep as close as possible to the right hand sidewalk.

Section 6. On a highway divided longitudinally by a parkway, reserved space for street railway cars, viaduct, walk, sunken way, subway or other structure or obstacle vehicles shall keep to the right of such division.

Section 7. A vehicle proceeding on the street car tracks shall turn out when signalled to do so by the motorman or conductor of an approaching street car.

Section 8. A vehicle when turning to the right into another street shall slow down and keep as near to the right hand sidewalk as possible.

Section 9. A vehicle in turning to the left into another street shall slow down and pass to the right of and beyond the centre of the intersecting streets before turning.

Section 10. Vehicles crossing from one side of the street to the other except for the purpose of passing other vehicles or because of dangers in the street shall do so by turning to the left so as to head in the general direction of traffic after they have crossed the street.

Section 11. No person having charge of vehicle shall allow the same to come within ten feet of any vehicle in front of him when approaching and passing over a crossing where a pedestrian is about to pass.

Section 12. No person shall ride, drive or cause to be driven any horse or vehicle over that part of any street which is being mended, repaired or paved if a watchman or signs are placed prohibiting the same.

Section 13. No person shall steal a ride on any vehicle.

Section 14. No vehicle shall stand with its left side to the sidewalk except in one way streets.

Section 15. All vehicles standing in the business section must stand near to and parallel with the right hand sidewalk unless it is necessary for the purpose of loading or unloading said vehicle to back up to the sidewalk. In one way streets vehicles may similarly stand near to and parallel with the left hand sidewalk.

Section 16. No vehicle shall be allowed to stand in any portion of street which the Board of Aldermen may designate as not to be used for parking.

Section 17. No vehicle shall remain backed up to the sidewalk except when actually loading and unloading and the horse thereof, if it be a horse-drawn vehicle, shall be turned in the direction of traffic and parallel with the sidewalk.

Section 18. Unless in an emergency or to allow another vehicle or a pedestrian to cross its way, no vehicle shall stand in any public street except close to the sidewalk.

Section 19. No vehicle shall stand in such a way as to obstruct any street or crossing or within 10 feet of a fire hydrant, street corner or pole stop, except in case of emergency or when directed to do so by a police officer.

Section 20. A vehicle waiting at the sidewalk shall promptly give place to a vehicle about to let on or take off passengers.

Section 21. No horse shall be left unattended in any street unless securely fastened by being tied to a post or weight or unless the wheels of the vehicle to which he is harnessed are securely tied, fastened or chained.

Section 22. No horse or vehicle shall be allowed to stand or be driven on any sidewalk except when crossing the same.

Section 23. Every driver of a vehicle shall in slowing up or stopping give a signal to those behind by conspicuously raising a whip or hand.

Section 24. In turning while in motion or in starting to turn from a standstill a signal shall be given by the driver of the vehicle about to turn by conspicuously raising a whip or hand indicating the direction in which the turn is to be made.

Section 25. The driver or person in charge of any vehicle before turning the corner of any street or turning out or starting from or stopping at the sidewalk shall first see that there is sufficient space free from other vehicles or objects so that such turn, stop or start may be safely made.

Section 26. Before backing any vehicle the driver or person in charge shall see that the way is clear and shall give adequate warning and shall, while backing, exercise the greatest vigilance to prevent accidents.

Section 27. The driver of a vehicle shall at all times obey the signals of a police officer.

Section 28. At crossings or street intersections where police officers are stationed, pedestrians must stop when directed to do so by police officer or mechanical device for the purpose of aiding traffic.

Section 29. In the thickly settled districts pedestrians are urged to cross the street on a crosswalk; where none such exists to cross the street at right angles preferably at a street intersection.

Section 30. Police, fire department, emergency repair wagons, United States mail vehicles and ambulances shall have the right of way in any street and through any procession.

Section 31. The driver of a horse or vehicle shall so guide the same as not to run into or over any person who is boarding or alighting from a stationary street car or who is attempting to board such car or who, having alighted therefrom, is duly proceeding to a place of safety.

Section 32. No vehicle shall be driven upon that part of a street set apart as a safety zone.

Section 33. No person shall drive any vehicle in such manner or in such condition or so constructed or so loaded as to be likely to cause delay to another vehicle or accident or injury to man, beast or property.

Section 34. No vehicle with a load of iron or other material that by striking together or otherwise causes great or disturbing noise shall be driven on any street.

Section 35. No person shall crack or so use a whip as to annoy, interfere with or endanger any person or excite any horse other than that which he is driving.

Section 36. The muffler of a motor vehicle shall not be cut out while on any street.

Section 37. The word "vehicle" herein shall include horses hitched to vehicles, horses ridden or led, motor vehicles of all kinds, bicycles, tricycles propelled by hand, and everything on wheels or runners except street cars and light carriages for the conveyance of children.

Section 38. The word "horse" herein shall include all domestic animals.

Section 39. The word "driver" herein shall include the rider or driver of a horse, the rider of wheels and the operator of a motor vehicle.

Section 40. Whoever violates any of the provisions of this ordinance shall be punished by a fine not exceeding twenty dollars (\$20) for each offense.

Section 41. This ordinance shall take effect upon its passage.

Approved July 12, 1913.

Ordinance No. 85.

An Ordinance Relative to Fees for Building Permits.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. For each permit issued by the Commissioner of Public Buildings a fee shall be paid the City Treasurer upon the issue thereof and before such permit shall take effect, as follows:

To erect a new building of non-combustible construction, other than a garage, a total fee of.....	\$15.00
To erect a new building having non-combustible external walls, other than a garage, a total fee of....	10.00
To erect a new building other than those above mentioned, and other than a garage, a total fee of....	5.00
To alter or add to a building at a cost of \$300, or less, a total fee of.....	1.00
To alter or add to a building at a cost of more than \$300, a total fee of.....	3.00
To take down a building having a ground area of 1500 square feet or less.....	1.00

To take down a building having a ground area of more than 1500 square feet.....	3.00
To erect a garage for not more than two cars, a total fee of.....	2.00
To erect a garage for more than two cars and costing \$3,000 or less, a total fee of.....	5.00
To erect a garage for more than two cars and costing more than \$3,000, a total fee of.....	10.00
To erect a new elevator in an existing building.....	2.00
To alter an existing elevator.....	1.00
To erect a motor, stationary engine or steam boiler or furnace for which a license has been granted by the Board of Aldermen.....	1.00
To install new plumbing in an existing building.....	3.00
For each preliminary permit issued by the Commissioner to drive piles or to construct a foundation of a building in advance of the general permit....	5.00
To erect a shed having a ground area of 100 square feet or more.....	2.00
Section 2. This ordinance shall take effect September 1, 1918.	
Approved July 26, 1918.	

Ordinance No. 86.

An Ordinance Amending Ordinance Relative to Collection of Taxes.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 1 of Chapter VI of the Revised Ordinances of 1911 is hereby amended by striking out the whole of said section and inserting in place thereof the following:

Section 1. Poll taxes shall be payable as soon as they are committed to the collector of taxes. All other taxes shall be payable on or before the fifteenth day of October of each year, and interest at the rate of six per centum per annum shall be charged from the said fifteenth day of October on all taxes remaining unpaid after the first day of November, next ensuing, until the same shall be paid. All taxes remaining unpaid thirty days after they become payable the collector shall proceed to collect in the manner provided by law.

Section 2. This ordinance shall take effect upon its passage.

Approved July 26, 1918.

Ordinance No. 87.

An Ordinance Relative to Flags Over Streets.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 18 of Chapter XV of the Revised Ordinances of 1911 as amended by Ordinance No. 77, is hereby further amended by inserting after the words "flag of the United States of America" the words:— or a flag of any country allied with the United States of America or a flag indicating military or naval service of the United States of America or of any country aforesaid,—so that the paragraph at the end of said Section 18 as amended shall read as follows:— provided, however, that with the written approval of the Mayor, in accordance with the terms of such approval, any person may suspend the flag of the United States of America or a flag of any country allied with the United States of America or a flag indicating military or naval service of the United States of America or of any country aforesaid over any street or sidewalk.

Section 2. This ordinance shall take effect on its passage.

Approved September 16, 1918.

FREDERIC W. COOK,
City Clerk.

CITY GOVERNMENT AND OFFICERS FOR 1918.

Mayor.

CHARLES W. ELDRIDGE, 47 Highland Road.

Board of Aldermen.

President, JOHN M. WEBSTER.

Vice-President, JOSEPH J. PINCUS.

WARD ONE.

Justin P. Nowell, Alderman-at-large	1 Webster street
Ralph H. Hosmer	51 Mt. Vernon street
James J. Shay	68 Mt. Pleasant court

WARD TWO.

George W. Pratt, Alderman-at-large, (Re-signed July 10),	35 Clark street
William E. Musgrave, Alderman-at-large, (Elected July 25),	11 Carlton street
Maurice F. Ahern	21 Linden street
Peter F. Donnelly	11 Allen street

WARD THREE.

John M. Webster, Alderman-at-large	246 Medford street
Carl F. Ashton	17 Bonner avenue
George A. Berry	60 Prescott street

WARD FOUR.

Walter H. Snow, Alderman-at-large	42 Derby street
Charles H. Manzer	60 Fellsway West
Richard L. Rice	298 Broadway

WARD FIVE.

William J. Bell, Alderman-at-large	380 Medford street
Arthur R. Corwin	8 Sycamore street
Alfred M. Pride	150 Hudson street

WARD SIX.

Joseph J. Pincus, Alderman-at-large	41 Lexington avenue
Enoch B. Robertson	87 Highland road
Fred W. Jackson	158 Lowell street

WARD SEVEN.

Eugene M. Carman, Alderman-at-large	102 College avenue
Wilbur F. Lewis	51 Foskett street
Hiram N. Dearborn	22 Lovell street

City Clerk — Frederic W. Cook.

Assistant City Clerk — Jason M. Carson.

City Messenger — Fred E. Hanley.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS — Aldermen Bell, Ashton, Jackson, Shay and Donnelly.

FINANCE — The President, Aldermen Robertson, Carman, Manzer, Hosmer, Corwin and Donnelly.

LEGISLATIVE MATTERS — Aldermen Lewis, Robertson, Hosmer, Corwin and Rice.

LICENSES AND PERMITS — Aldermen Nowell, Snow, Pratt, Lewis, Pincus, Pride and Berry.

PUBLIC PROPERTY — Aldermen Pratt, Pride, Rice, Berry and Dearborn.

PUBLIC SAFETY — Aldermen Manzer, Jackson, Ahearn, Dearborn and Shay.

PUBLIC SERVICE — Aldermen Carman, Robertson, Bell, Hosmer, Ahearn, Manzer and Ashton.

PUBLIC WORKS — Aldermen Snow, Ahearn, Pincus, Nowell, Carman, Ashton and Bell.

School Committee.

Chairman—GUY E. HEALEY (Resigned October 21, 1918).

Vice-Chairman—HERBERT CHOLERTON.

(Term, two years, except members ex-officiis.)

CHARLES W. ELDRIDGE, Mayor (ex-officio), 47 Highland Road.

JOHN M. WEBSTER, President Board of Aldermen (ex-officio), 246 Medford street.

WARD ONE.

JAMES J. RUDD (elected 1917), 46-A Franklin street.

WINNIFRED P. DAVIS (elected 1916), 125 Pearl street.

WARD TWO.

DANIEL H. BRADLEY (elected 1917), 19 Concord avenue.

CHRISTOPHER MULDOON (elected 1916), 88 Concord street.

WARD THREE.

OSCAR W. CODDING (elected 1916), 21 Pleasant avenue.

ALFRED L. WEST (elected 1917), 69 Avon street.

WARD FOUR.

FRANK H. HOLMES (elected 1916), 22 Walter street

ARTHUR N. RICHARDSON (elected 1917; resigned October 21, 1918), 68 Bonair street.

WARD FIVE.

HARRY M. STOODLEY (elected 1917), 283 Highland avenue.

JULIA R. ALDRICH (elected 1916; resigned July 15, 1918), 262 School street.

BLANCHE E. HERBERT (elected July 25, 1918, to fill vacancy), 56 Dartmouth street.

WARD SIX.

GUY E. HEALEY (elected 1917; resigned October 21, 1918), 38 Cambria street.

GEORGE E. WARDROBE (elected 1916), 31 Rogers avenue.

WARD SEVEN.

FRANK E. PORTER (elected 1917), 43 Ossipee road.

HERBERT CHOLERTON (elected 1916), 94 College avenue.

Superintendent and Secretary—CHARLES S. CLARK.

Office, City Hall Annex.

Hours: 7:45 A. M. to 5 P. M., except Saturdays;
Saturdays, 8 to 10 A. M.

Regular meetings, last Monday evening of each month, except July and August, when none are held, and December, when meetings are on the fourth Friday, and on the Friday preceding the first Monday in January.

Assessors.

(Term, three years).

FRED E. WARREN, Chairman (term expires 1920).

WINSOR L. SNOW (term expires 1921).

HARRY VAN IDERSTINE (term expires 1920).

J. ROBERT FENELON (term expires 1919).

DAVID B. ARMSTRONG (term expires 1921).

Assistant Assessors.

(Term, one year).

FRED B. CLAPP.

JOHN M. NANGLE.

JOHN S. MCGOWAN.

LEONARD C. SPINNEY.

JOHN J. MCCARTHY.

SAMUEL C. WISWALL.

LAWRENCE J. WARD.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, two members, two years; one member, one year).

RALPH F. HODGDON, M. D., Chairman (term expires 1919; resigned Nov. 8, 1918).

ROBERT M. LAVENDER, Chairman (term expires 1920; elected chairman Nov. 15, 1918).

WARREN C. BLAIR (term expires 1919).

JOHN E. GILLIS, M. D., (term expires 1919; appointed Nov. 14, 1918, to fill vacancy).

Clerk—LAURENCE S. HOWARD.

Agent—GEORGE I. CANFIELD.

Acting Medical Inspector—C. CLARKE TOWLE, M. D., (resigned Oct. 25, 1918); RALPH F. HODGDON, M. D., (elected Nov. 9, 1918).

Inspector of Animals and Provisions—CHARLES M. BERRY.

Inspector of Milk and Vinegar—HERBERT E. BOWMAN.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

(Term, three years).

HENRY F. CURTIS, M. D., Chairman (term expires 1919).

ALBERT W. EDMANDS (died Oct. 13, 1918).

MICHAEL COLL (term expires 1921).

FRED E. DURGIN (appointed Oct. 24, 1918, to fill vacancy; term expires 1920).

Agent—CHARLES C. FOLSOM (retired Dec. 28, 1918).

Warden City Home—J. FOSTER COLQUHOUN.

Matron City Home—CATHARINE COLQUHOUN.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Planning Board.

(Term, five years.)

WILLIAM F. RILEY, Chairman (term expires 1921).

DAVID J. KELLEY, Secretary (term expires 1919).

HARRISON L. EVANS, (term expires 1920).

PAUL R. VALENTINE, (term expires 1922).

GEORGE J. RAUH, (term expires 1923).

Registrars of Voters.

(Term, three years.)

EDWIN D. SIBLEY, Chairman (term expires 1918).

DOUGLASS B. FOSTER (term expires 1920).

CHARLES LEO SHEA (term expires 1919).

FREDERIC W. COOK, City Clerk.

Public Library Trustees.

(Term, three years.)

THOMAS M. DURELL, Chairman (term expires 1919).

J. FRANK WELLINGTON (term expires 1920.)

FREDERICK W. PARKER (term expires 1921).

WILLIAM L. BARBER (term expires 1919).

CHARLES L. NOYES (term expires 1920).

HERBERT E. BUFFUM (term expires 1920).

GILES W. BRYANT (term expires 1921).

DAVID H. FULTON (term expires 1921).

HERMAN C. BUMPUS (term expires 1919).

Librarian and Secretary—GEORGE H. EVANS.

(Appointed May 1, 1917.)

Recreation and Playground Commission.

CHARLES S. CLARK, Chairman (term expires 1919).

GEORGE L. DUDLEY, Secretary (term expires 1920).

FRANCIS P. GARLAND (term expires 1920).

ERNEST W. BAILEY (term expires 1920).

JOHN F. COLQUHOUN (term expires 1920).

FRANCES M. WEEKS (term expires 1919).

ELIZABETH MONGAN (term expires 1919).

City Clerk.

FREDERIC W. COOK.

Assistant City Clerk—JASON M. CARSON.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

JOSEPH S. PIKE.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Messenger.

FRED E. HANLEY.

Mayor's Secretary.

LEON M. CONWELL.

City Solicitor.

FRANK W. KAAAN.
50 State street, Boston.

City Auditor.

HOWARD E. WEMYSS.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Engineer.

ERNEST W. BAILEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

ASA B. PRITCHARD.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Public Buildings and Inspector of Buildings.

GEORGE L. DUDLEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Electric Lines and Lights.

WALTER I. FULLER.
Office, Central Fire Station, 261 Medford street.

Water Commissioner.

FRANK E. MERRILL.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Superintendent of Sanitary Department.

EDGAR T. MAYHEW.

Clerk of Committees and Departments.

RICHARD A. KEYES.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Chief of Police.

CHARLES A. KENDALL.
Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

City Physician.

C. CLARKE TOWLE, M. D.
24 Prospect Hill avenue.

Inspector of Plumbing.

DUNCAN C. GREENE.
Office hour: 8 to 9 A. M.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN.
Office hours: 9 A. M. to 12 M., except Saturdays.

Inspector of Animals and Provisions.

CHARLES M. BERRY.
60 Prescott street.

Inspector of Petroleum.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

Sealer of Weights and Measures.

JOHN H. DUSSEAULT.
Deputy Sealer—BENJAMIN S. ABBOTT.
Office, City Hall Annex.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Registration Clerk, City Laborers.

FORREST D. COOK.

Fence Viewers.

CHARLES M. BERRY,
HOWARD LOWELL,

Agent of Military and State Aid and Soldiers' Relief and Burial Agent.

JOHN H. DUSSEAULT,
42 Sargent avenue.

Constables.

CHARLES M. AUSTIN.
CHARLES W. F. BENNETT.
GEORGE H. CARLETON.
EUGENE A. CARTER.
WINSLOW W. COFFIN.
FORREST D. COOK.
WILLIAM E. COPITHORNE.
ALBION B. CROCKER.
THOMAS DAMERY.
CHARLES L. ELLIS.
CHARLES C. FOLSOM.
ARTHUR L. GILMAN.

FRED E. HANLEY.
JAMES M. HARMON.
FRED W. JACKSON.
HARRY E. JACKSON.
CHARLES A. KENDALL.
MICHAEL T. KENNEDY.
EDWARD E. MARSH.
LOUIS A. MORRIS.
CORRADO PALLADINO.
JOHN A. RAY.
JOHN F. SCANNELL.
CHARLES E. WOODMAN.

Measurers of Wood and Bark.

CHARLES A. HARDY.
OSMON T. MARSH.
JOSEPH F. TYTER.
F. FULLER WHITING.

Measurer of Grain.

EVERETT C. EMERY.

Public Weigher.

HARRY A. WILSON.

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